Allen, Paul H.

BOOK 4

Field notes 1952 - 1961

Panama Nos. 6647 - 7777

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Plants of Panama

Canal Zone Experiment Station - Summit -
Nov. 26, 1952

6647 - Prioria copaifera Griseb. - Flowers white, turning brownish or yellowish with age. Inflorescences open paniculate racemes. Fallen fruits appear to have matured about Aug.-Sept. - See photo ③

6647-A - Hymenaea courbaril - See photo ①

Cerro Campana - 3100 ft. Nov. 27, 1952 - with Graham Fairchild

New to Panama!

6648 - Epidendrum pseudo-wallisii Schltr. - Epiphytic - Plants to about 12" in height, rigidly erect. Scapes few flowered - 1-3 with showy yellow sepals & petals. Lip white, with prominent purple markings - See photo. ② (?)

Vcty. Puerto Armuelles - 100 ft. Nov. 30, 1952

6649 - Myroxylon balsamum - Single fallen fruit. ①

6650 - Bernoullia flammea Oliver - Flr. red - showy! - Tree, 90-100 ft., with a narrow crown. Bark dark gray, corky, with prominent lenticels. Trunk moderately buttressed to about 5-6 ft., about 24-30" in diameter above the buttress. Sapwood not differentiated from the soft white heartwood, which turns pinkish or brownish on exposure to the air. Of about the consistency of balsa. See photo & wood specimen ⑥

Fairly frequent in woodlands

PLANTS OF COSTA RICA

PASTURES NEAR PALMAR NORTE - 100 FT. DEC. 2, 1952

6651 - PSEUDIMA ? - SHRUB OR SMALL, MULTIPLE-TRUNKED TREE, 10-18 FT. - FRUITS BRIGHT RED. LOCALLY FREQUENT ALONG STREAM BANKS. SEE ALSO NO. 5525 & PHOTO. ③
SEEDS JET BLACK.

6652 - POSOQUERIA LATIFOLIA - TREE, 20 FT. - FLOWERS WHITE, FRAGRANCE OF CARNATION. FREQUENT. ③

6653 - QUARARIBEA - TREE, 50 FT. FLOWERS WHITE. SEE ALSO NO. 6635 - ④

6654 - LAURACEAE - BUSHY TREE, 40 FT. FLOWERS YELLOW - CUPULES OF FRUITS RED - FRUITS GREEN - FREQUENT IN PASTURES. - SEE PHOTO \ BLACK WHEN MATURE. ⑥

COTO JUNCTION - 50 FT. DEC. 5, 1952

DUSSIA MEXICANA ?
6655. LEGUME - ORMOSIA ? TREE, 125 FT., WITH A BROAD, SPREADING CROWN. TRUNK ABOUT 3½ FT. IN DIAMETER ABOVE THE STRONGLY DEVELOPED BUTTRESSES, WHICH OCCUPY THE LOWER 12-15 FT. SAPWOOD PALE YELLOW, NOT DIFFERENTIATED FROM THE HEARTWOOD, FIRM, & PROBABLY OF WOOD QUALITY. SAP BLOOD RED LIKE THAT OF PTEROCARPUS OFFICINALIS. FRUITS YELLOW, WITH ONE TO THREE SCARLET SEEDS. SEE PHOTOS & WOOD SPECIMENS. ⑥

6656 - Chrysophyllum cainito - Tree, 75 ft. - Under-surfaces of leaves pale brown - Occasional in climax forest - Sterile. (4)

6657 - Casearia banquitana var. laevis ?? - Slender trees, 75 ft. - Trunk not buttressed - about 16" diam. B.H., clear & straight for about 55-60 ft. with a short, flat-topped, spreading crown. Fruits yellowish brown, conspicuous from a distance. Frequent in swampy forest from Coco Junction to about Lagarto. See photos. Wood pale yellow, sapwood not differentiated from heartwood. Splits easily. See wood specimen. (6)

6658 - Unonopsis ~~licania[illegible]~~ licaniaefolia Tree, 65 ft. - in climax forest. (4)

6659 - Neonicholsonia watsonii Dammer - Single stemmed, acaulescent palms, averaging about 8-9 ft. to tips of fronds. About 8 live fronds on mature plants. Rachis red. Fruits green, with ruminate endosperm. Common in climax forest. Also at Esquinas. (3)

Vcty. Kil. 42 - 100 ft. - Dec. 5, 1952

6660 - Tessaria mucronata - Tree, 18 ft. - forming thickets along small streams. Flowers lavender. See photos. (4)

PASTURES NEAR PALMAR NORTE - 100 FT. - DEC. 2, 1952

6661 - SCHEELEA ROSTRATA (OERST.) BURRET ? - FRUITS ONLY - ①

6662 - ASTROCARYUM STANDLEYANUM - FRUIT ONLY - NOTE DIFFERENCES IN SIZE - SEE PHOTO. ①

PUERTO ARMUELLES - PANAMA - 100 FT. - NOV. 30, 1952

6663 - SCHEELEA ROSTRATA (OERST.) BURRET - FRUITS ONLY - SEE PHOTO - ①

VCTY. TINOCO STATION - SEA LEVEL - DEC. 10, 1952

6664 - CASSIA N. SP. - WOODY LIANA, WITH STRONGLY FURROWED, ANGULAR STEMS, THE BASE OF EACH PINNATE LEAF WITH A PAIR OF STRONG THORNS. FLOWERS BRIGHT YELLOW, VERY SHOWY. SEE ALSO 5231, & SKUTCH 5419 & 5274 SEE PHOTO ⑥

6665 - COMBRETUM FARINOSUM HBK ?? - WOODY LIANA, CLIMBING TO THE TOPS OF TREES 40 - 75 FT. TALL. BUDS & CALYX BLOOD RED - PETALS AND STAMENS GREEN, WITH RED ANTHERS. VERY SHOWY. SEE PHOTO ⑥

6666 - *Oncidium baueri* Lindl. - Sepals & petals yellow, blotched reddish brown - expanded frontal lobe of lip bright yellow. Isthmus & base of lateral lobes chestnut brown. Callus yellow, marked reddish brown. *See photo*. In tops of large trees - ①

File cards made to here on all known material Dec. 14, 1952

Vcty. Palmar Norte - 100 ft. Dec. 16, 1952

6667 - *Byrsonima crassifolia* (L.) HBK - Tree, 20 ft. - Flowers yellow - Rare in pastures. *See photo* ④

6668 - *Solanum* - Woody herb, 3 ft. Flowers white. Fruits orange, covered with transparent hairs. See also No. 6640 - ③

6669 - *Andira inermis* (Swartz) HBK - Tree, 20 ft - Fruits green - Occasional - *See photo* ④

6670 - *Xiphidium caeruleum* Aubl. - Fruits bright red. Frequent in forest. ③

6671 - *Picramnia latifolia* Tul. - Trees, 12-30 ft. - Flower spikes red, becoming greenish white with age. (Immature anthers red. Mature anthers & elongate stamens white.) One of the most frequent understory trees in climax forest. ②

6672 - *Xylobium foveatum* (Lindl.) Nicholson - Epiphytic. Flowers pale yellow - lip with reddish brown lines. Occasional. ①

6673 - *Mormodes igneum* Lindl. & Paxt. - Flowers pale reddish tan, with paler stripes on sepals, petals & lip. Rather rare. ①

6674 - *Epidendrum stamfordianum* Batem. - S. & p. pale green, marked with reddish purple. Frontal lobe of lip pale green - lateral lobes white. Anther & crest marked with rich lavender. Occasional. ①

6675 - *Epidendrum stenopetalum* Hook. - S., p. & lip pink. Lip with a pure white blotch at the base. ①

ESQUINAS FOREST - 100 FT. DEC. 17, 1952

6676 - Philodendron auriculatum Standl. & L. Wms. - Epiphytic herb - Spathe green on outer surface; inner surface lustrous wine red. Spadix pale creamy yellow. Common and very handsome. SEE PHOTO ②

- SYNECHANTHUS ANGUSTIFOLIUS WENDL.

6677 - Palm - Stoloniferous - clumps with 3-6 unarmed canes 1¼-1½" in diam, which average about 8-10 ft. in height. Fruits red. Occasional in forest. ②
Mature canes with about 5 live fronds.
Fruits spherical - not rostrate - endosperm ruminate.

Palmar Sur - 50 FT, DEC. 26, 1952

6678 - CASEARIA ARGUTA HBK - Tree, 15 ft. - Flowers greenish white - Second flowering this year. SEE PHOTO ③
Leaves glandulous - Fls. fragrant. Has a considerable superficial resemblance to coffee when in flower.

A Palmar Norte Feb. 5 1953

6679 Anacardium excelsum "Espavel" "Stinker" - gave me mango poison and hay fever. ⑥

Hills near Palmar Sur - 200 ft. - Dec. 30, 1952

6679 - β *Guatteria amplifolia* Tr. & Pl. - Tree, 18 ft. Flowers green, about 1½" in diameter, with stiff, leathery sepals & petals. Flowers produced from the trunk or woody branches. Flowers only. ①

6680 - *Oenocarpus panamanus* Bailey - Stoloniferous palms, with 6-12 smooth, unarmed canes 12-30 ft. in height, & 3-6" in diameter, each cane with 8-10 large fronds, the well developed crownshaft purplish in color. Inflorescences infrafoliaceous, 2-4 in number, spathes 2. Rachis of scape short & stout, borne in a nearly horizontal or slightly ascending position, the wine red rachillae pendulous. Flowers white. Fruits at first green, becoming purple when ripe. Lower surfaces of leaves glaucous. *See photos* ③

6681 - *Vantanea barbouri* Standl.? - Tree, 120 ft. Trunk slightly buttressed to about 6-7 ft., up to 5 ft. in diam. above the buttresses. Bark has a great many prominent, corky lenticels, and large irregular patches which flake off from the trunk. Wood when freshly cut has a sweet, pleasant odor, reminiscent of crushed sugar cane - Sapwood only slightly lighter in color than the pinkish-brown heartwood. Flowers white. Frequent on ridges in forest. Also at Esquinas where it is frequent - See wood sample & fruits.

6682 - Symphonia globulifera L. f. - Tree, 65 ft. Fruits. ②

Vcty. Tinoco Station - Sea level - Dec. 31, 1952

6683 - Neea elegans P.H. Allen ~~Palicourea~~? - Tree, 18 ft. Fruit clusters pendulous, the rachis and fruits at first orange, becoming blood red at maturity. Very showy. See photo. Rare

Vcty. Piedras Blancas - Sea level - Dec. 30, 1952

6684 - Gongora maculata Lindl. - Striking color form. Rachis dark purple - sepals, petals & lip pure yellow - column pale green. Note that all parts are somewhat more slender than usual, and that the frontal lobe of the lip has a curious cleft near the base on the ventral side. Scoltock's variety. See photo. ①

Vcty. Palmar Sur - Sea level - Dec. 30, 1952

6685 - Cassia reticulata - See photo. ①

6686 - Oncidium ampliatum - Flowering orchid. ①
Back of lip white - front bright yellow,

Hills near Golfito - 0-200 ft. January 4, 1953

6687- Acanthaceae - Slender herb, 3 ft. - Flowers pinkish lavender. Undersides of leaves purple. ②

6688- Cecropia sandersoniana P.H. Allen - Trees, often to 90 ft. in height and 36" in trunk diameter above the buttressed base. Trunks not ringed, the bark with many conspicuous corky lenticels. Trunks of young trees, and the branches of mature specimens black. Lower trunk usually with stilt roots, which develop into flying buttresses in older specimens. Lower surfaces of leaves glaucous gray, contrasting with the dark green, glossy upper surface. New leaves pink. Veins of the mature leaves & leaf petioles green. Spathes of pistillate inflorescences coral red. Bracts enclosing new leaves dragons-blood red. Pistillate inflorescences lemon yellow. Common - See photo. Leaves with 8 lobes. ③

6689- Tetrathylacium costaricense Standl. - Tree, 40 ft. Rachis of inflorescence & fleshy, flowers dark red. Anthers pale yellow. See photo. ②

6690- *Ceiba pentandra* (L.) Gaertn. - Tree, 125 ft. Cupular calyx & pedicel green, fleshy, & glabrous. Corolla 5-parted, salver form, the petals silky on the outer surface, which is lustrous and pinkish yellow in color. Inner surface of petals smooth, waxy, & yellowish pink, the apices somewhat reflexed. Stamens 5, dull, dark pink (old rose), with relatively large, strongly contorted brown anthers, with showy golden yellow margins. Style bright pink, exceeding the stamens in length, the apex 5-fid & viscid. Fallen flowers only. ①

6691- *Heliocarpus appendiculatus* Turcz. - Tree, 60 ft. Fruits old rose pink - common & conspicuous. *See photo.* ③

6692- *Belotia* *reticulata* Sprague - Tree, 65 ft. - Flowers very pale pink (nearly white) with yellow stamens. *See photo.* ③ Fragrant, Fls. look white when seen from a distance, Bark about 3/4" thick, mucilaginous & corky.

6693- *Belotia* macrantha Sprague - Tree, 45 ft. - Sepals deep pink. Petals purple. - Flowers give impression of being dark pink when seen from a distance. Common. *See photo.* ③

6694- *Marcgravia* - Nectaries green - *See photo* ③

6695 – *Dialium guianense* (Aubl.) Sandwith – Fallen fruits from same tree as flowering specimens. ①

6696 – *Bulbophyllum pachyrrhachis* – Rare ①

Vcty. Palmar – 50 ft. January 8, 1953

6697 – *Heliconia* – Plants form dense colonies 5-9 ft. tall. Stalks distinctly distichous at the base, 3-4" wide & 1-1½" thick. Leaves smaller than in *H. rostrata* and much more leathery & darker green. Scapes pendulous. Bracts red, with bright yellow margins. Flowers yellow. All parts smaller & narrower than in *H. rostrata*, & also much fewer bracts. Found only in swampy places, often in standing water, as in Coto & near Parita. Locally common in Coto, but rare near Palmar. ②

6698 – *Oncidium ampliatum* Lindl. var. *majus*. Single flower. ①

6699 – *Acacia farnesiana* (L.) Willd. – Tree, 12 ft. Paired spines white, not hollow, not inhabited by ants. Flowers bright yellow, intensely fragrant. Leaves or flowers do not wilt for 24 hours or more after being removed from the tree. Fruits dark brown when mature – See photo – ②

6700 - Luehea Seemannii Tr. & Pl. - Tree, 40 ft. Sepals green, petals pale yellow. Stamens pale yellow. Rachis of inflorescence & undersides of leaves brown-tomentulose. See photo ② Leaves somewhat asymmetrical at the base.

6701 - Cardiospermum grandiflorum Swartz - Vine - Flowers white - Inflated pods green, becoming straw colored at maturity. Very common in hedge rows. See photo. ③

6702 - Guazuma ulmifolia Lam. - Tree, 45 ft. - Fruits green - Common in pastures & along trails. See photo. ③

Vcty. Golfito - 100 ft. Jan. 14, 1953

6703 - Dussia mexicana (Standl.) Harms. - Tree, 90 ft. - Calyx brown, tomentulose. Limb pale pink, with darker pink markings in the center. Not showy. Same tree has had fruits identical with No. 6655. See photo of buttress. ①

6704 - Guatteria chiriquensis R.E. Fries - Flowers green, fleshy, with yellow centers. Common. See photos. ③

6705- *Callichlamys* *latifolia* (Rich.) Schum. - Liana, climbing in tall trees. Flowers bright yellow. Specimen received from Paul Hari. ①

6706- *Calonyction* - Flowers white - moon flower. From Paul Hari - ①

6707- *Brosimum* *sapiifolium* ? - Tree, to 80 ft. (stump sprouts) milky latex. *See photo of tree*. ②

Cards made to Herb. Jan. 14, 1953

Vcty. Palmar - January 16, 1953

6708 - Ficus werckleana - Tree, 80 ft. - Trunks white, buttressed to about 10-12 ft., about 3 ft. in diameter above the buttresses. Frequent in pastures near the Palmar dairy. ③

6709 - Hiraea grandifolia - woody liana - flowers yellow. Odd petal marked with orange. ③
See photo

Pastures near Palmar Norte - 50 ft. Jan. 17, 1953

6710 - Inga spectabilis (Vahl) Willd. - Rounded tree, 45 ft. - Fruiting specimens - See photo ②

6711 - Tabebuia guayacan ? - Tree, 75 ft. - Inner bark papery, laminated. Sapwood white, very thick, to about 3-4". Heartwood dark olive brown, hard, heavy & cross-grained - Does not match material of T. rufescens, T. chrysantha and is not too close to descriptions of T. guayacan. Note peculiar flattened leaf petioles. Sterile. See wood specimen. ⑤

6712 - Xylosma sp. - Slender tree, 45 ft. - Trunks with dense fascicles of long, needle-like spines. Sterile - ⑤

6713 - Quararibea platyphylla - Tree, 45 ft. - Bark scaling off in irregular narrow strips - Sterile - ①

Espinas Forest - 200 ft., Jan. 19, 1953

6714 - Warscewiczia coccinea - Tree, to about 35 ft. Flowers orange - Bracts blood red - See photo ①

6715 - Socratea durissima (Oerst.) Wendl. - Tall, slender, single, trunked palms, to about 65 ft. - Tall stilt roots armed with short, sharp prickles. Crown-shaft about 5 ft., glaucous green - About 6 live fronds - pinnae borne at an ascending angle with the rachis. Spathes apparently six!! pale yellow, strongly suffused with pink. Inflorescences infrafoliaceous - usually 1-2. Flowers white, with 68!! pale yellow stamens. See photo of stilts. ③

6716 - *Sclerolobium* - Tree, 120 ft. - Reddish brown bark - very strongly developed plank buttresses to about 12 ft. - "Payevo de toro" - *Sterile* ①

6717 - *Sclerolobium* - Tree, 80 ft. - Sterile - See wood specimen - Same as above - ④

6718 - *Carapa* *slateri* Standl. - Tree, 100 ft. - Trunk prominently buttressed to about 10 ft. *See photo of buttress.* ⑤

Vcty. of Palmar Norte - 100 ft. - Feb. 15, 1953

6719 - *Quararibea platyphylla* ? - Tree, 65 ft. - Fruit only - ①

6720 - *Adiantum* *seemannii* Hook f. - Fern - undersides of new leaves blue. Frequent on steep banks along small streams. ③

6721 - *Calonyction* *aculeatum* (L.) House - Flowers white. Infrequent in brushy places along trails ①

6722 - Lauraceae - Tree, 35 ft. - Flowers tan. Occasional in pastures. ④

Vcty. Palmar Sur - 50 ft. - Feb. 17, 1953

6723 - Virola sp. - Slender tree, 75 ft. Crown narrow. Fruits yellow, 2-valved, about 1¼" long & 1" in diam. when fresh. Pale brown seeds surrounded by a blood red aril. See drawing. Will not key out!! ⑥

Río Piedras Blancas - Vcty. Piedras Blancas - 100 ft. Feb. 17, 1953

6724 - Gustavia sp. - Small, usually unbranched tree, 9-12 ft. Huge leaves clustered at the apex of the trunk. Flowers apparently sessile & terminal. Sterile. ②

Vcty. Palmar Sur - 50 ft. - Feb. 18, 1953

6725 - Casearia arguta - Tree, 18 ft. - Fruits & a few flowers. Some branches deciduous. ①

Esquinas Forest Preserve - 200 ft. Feb. 18, 1953

6726 - Ardisia aff. A. pittieri - Slender tree, 9-25 ft. Flowers pink, in pendulous panicles. Frequent. ④

surinamensis?
6727- Virola sp. - Tree - 100 ft. Fruiting specimens. Will not key out. See photo. ⑥

Forest near Palmar Norte - 250 ft. Feb. 21, 1953

6728- Bombax barrigon - Fallen flowers only. ②

6729- Peltastes isthmicus Woodson - Sterile - ①

300 —
Hills above Palmar Norte - 1500 ft. Feb. 21, 1953

6730- Tabebuia pentaphylla - Tree, 100 ft. - Flowers pink. Bark longitudinally fissured. Very rare. Fallen flowers only. In climax forest. ①

6731- Tabebuia guayacan - Tree - 100 ft. Flowers bright yellow. Sapwood white, about 4-6" thick; heartwood olive brown. Occasional. See wood sample. ④

6732- Prescottia stachyodes (Sw.) Lindl. - Locally common - Terrestrial. In old fruit. ②

CRESTS OF HILLS ABOVE PALMAR NORTE - 2500 FT. FEB. 21, 1953

6733 - CEPHAELIS ELATA SW. - SHRUB OR SMALL TREE, 10 FT. BRACTS ORANGE. OCCASIONAL. MID-VEINS OF THE UPPER LEAF SURFACE RED. ATTRACTIVE. (4)

6734 - GUATTERIA - TREE, 15 FT. - LEAVES COVERED WITH A REDDISH-BROWN TOMENTUM. ATTRACTIVE. OCCASIONAL. SEE PHOTO. (10)

6735 - LADENBERGIA SP. - TREE - 40-90 FT. - LEAF VEINS, PETIOLES & RACHIS OF INFLORESCENCE RED. FLOWERS WHITE. RATHER FRAGRANT IN CLIMAX FOREST. SEE PHOTO.

ESQUINAS EXPERIMENT STATION GROUNDS - 50 FT. FEB. 22, 1953

6736 - TRIZEUXIS FALCATA - EPIPHYTIC ON RAMBUTAN TREES, FORMING SMALL COLONIES. S. & P. GREENISH WHITE. LIP YELLOW. (2)

Cerro Santa Barbara, Honduras - 4500 ft. Flowered in Palmar Feb. 22, 1953

6737- Mormodes igneum - Flowers reddish brown. ①

Vcty. Palmar Norte - 100 - 200 ft. March 1, 1953

6738 - *Simaba* *cedron* Planch. - Tree, 10 - 20 ft. - Inflorescences large terminal panicles of green, slightly fragrant flowers, with white stamens. Occasional along trails & in fence rows. Cultivated in Palmar Norte as a medicinal plant. ④

(Oerst.) Wendl.

6739 - *Bactris* *balanoidea* Forms open colonies, the interval between the canes about 1-3 ft. Fronds and spathes intensely spiny. Fruits purple when mature, edible. ②

6740 - *Jacaranda* *lasiogyne* ?? Rather bushy tree, 65 ft. Flowers purple. Occasional. Note that inflorescences are *terminal*. Change key! Trees deciduous at flowering time. *J. copaia* flowers when in leaf. Inner corolla with a white blotch. ⑩

MARGINS OF FOREST & FORESTED HILLS NEAR PALMAR NORTE - 100-1800 FT. MARCH 6, 1953 - WITH H.E. MOORE

6741 - LICANIA ARBOREA - TREE, 40 FT. - FLUSHES OF NEW LEAVES PURPLE ON THE UPPER SURFACE & PURE WHITE BELOW. FAIRLY FREQUENT IN CLIMAX FOREST. STERILE. ②

6742 - CHAMAEDOREA - DWARF SINGLE-STEMMED PALM, ABOUT 6-7 FT. - TRUNK USUALLY ABOUT 6"-1 FT. AT THE BASE OF THE 8-10 LIVE FRONDS. LOCALLY FREQUENT ON STEEP RIDGES AT ABOUT 1800 FT. ELEVATION. LOOKS MUCH LIKE NEONICHOLSONIA - FRUIT 10 MM. HIGH & 8 MM. WIDE. BLACKISH. SAME AS H.E. MOORE NO. 6525. ①
RACHILLAE BRIGHT ORANGE.

6743 - HASSELTIA FLORIBUNDA - TREE, 50 FT. - FLOWERS PALE YELLOW. FREQUENT IN CLIMAX FOREST AT ABOUT 1800 FT.

6744 - ASTEROGYNE MARTIANA WENDL. SLENDER, UNARMED SINGLE-STEMMED PALM, ABOUT 4-8 FT. TALL. CROWNS AVERAGE ABOUT 12-15 LIVE, BIFID, ENTIRE FRONDS. LOWER TRUNK OFTEN SOMEWHAT RECLINING AT THE BASE. FRUITS AT FIRST RED, BECOMING BLACK AT MATURITY. SEE ALSO H.E. MOORE NO. 6530. ①
SPADICES ARCUATE-SPREADING, WITH PINKISH RACHILLAE. FRUITS 11 MM. LONG & 6-7 MM. WIDE.

6745 - Iriartea gigantea sp. - single stemmed, unarmed palm, about 25 ft. - spathes pendulous, cornute. Stilts only about 18" high. Fruits completely spherical 1" diam. embryo lateral. See photo. ①
Leaf fragment from a juvenile specimen.
See also H.E. Moore 6524.
Pinnae in juvenile specimens on one plane.

6746 - Bactris divisicupula Bailey sp. - weakly stoloniferous, spiny palms, with 3-4 canes to 18 ft. in height. Mature fronds about 6-8 - spines conspicuously whitish or yellowish and often more or less winged & margined & tipped dark brown. Mature fruits dark purple. See also H.E. Moore 6531. ①
Fruits 15 mm. wide & 11 mm. high, the apex abruptly rostrate. Spathe tawny brown - tomentose with many short flat yellowish spines.

Vcty. Tinoco Station - Sea level - March 7, 1953
with H.E. Moore

6747 - Socratea durissima - single trunked palm, 60 ft., with very prominently developed spiny stilts about 7 ft. tall. Live fronds about 6-8. Crownshaft about 4½ ft., somewhat glaucous. Individual pinnae split longitudinally into 3-4 segments. Pinnae about 4-6 times as long as broad. See photo of fruits.
See H.E. Moore 6532. ①

Frond rachis about 7 ft. with about 20 pairs of pinnae.

Esquinas Forest - 200 ft. March 9, 1953 - with H. E. Moore

6748 - Geonoma sp. congesta Unarmed, stoloniferous palm, about 20 ft. tall, with 3-5 slender canes, about 1½" in diameter. Live fronds about 12. Only one specimen seen. See H. E. Moore 6534. ① Note variable fronds!! Spadices infrafoliar, orange at maturity.

6749 - Ardisia sp. - Tree, 10 ft. - leaves clustered at the apex of the stem. Flowers pendulous or arching, deep pink, with yellow stamens. Frequent. Note huge foliaceous stipules!! ①

6750 - Geonoma sp. Slender, stoloniferous palm, with 3-5 canes about 6-10 ft. tall & 3/8" in diameter. Locally common on ridges. See also H. E. Moore 6538. ①

6751 - Synechanthus angustifolius Wendl. Slender, unarmed palms, with solitary or rarely multiple trunks, to about 8-12 ft. in height. Spadices either inter or infra-foliar. Globose fruits bright cherry red when mature. See H. E. Moore No- 6537. Locally frequent. ① Some plants have adventitious stilt roots.

6535

6752 - Asterogyne martiana Wendl. - Single trunked, unarmed palm, to about 10 ft., but averaging 5-7 ft. in height. Fronds bifid & entire. Trunk seldom straight, usually somewhat repent at the base & arcuate above. Flowers white, fragrant. Fruits dark purple when mature. See also 6744 & H.E. Moore 6535. See photo. ①

6753 - Geonoma congesta sp. - Tall, very handsome, unarmed palm, with from 3-5 to about 20 canes which vary from 10 to 25 ft. in height & 1½-2" in diam. See photo. See also H.E. Moore 6536 "Caña de danta" - very common. Spadices infrafoliar, orange at maturity. ① Fruits dark bluish black.

PASTURES NEAR PUERTO CORTES - 50 FT. MARCH 10, 1953
WITH H. E. MOORE

6754 - SCHEELEA ROSTRATA - SEE PHOTOS. SAME AS MOORE 6540. ①

6755 - HELICONIA - PLANTS ABOUT 8 FT. TALL, FORMING DENSE, DARK GREEN COLONIES ALONG SMALL STREAMS. INFLORESCENCES PENDULOUS. BRACTS BLOOD RED, EDGED BRIGHT YELLOW. FLOWERS BRIGHT YELLOW. LOCALLY COMMON. SAME AS NO. 6697. Ⓘ

HILLS NEAR PALMAR - 200 FT. MARCH 11, 1953
WITH H. E. MOORE

6756 - BACTRIS BALANOIDEA (OERST.) WENDL. - FRUITS NEARLY GLOBULAR - DEEP PURPLE (NEARLY BLACK) TO ABOUT 4 CM. IN DIAMETER. SEE PHOTOS. SAME AS NO. 6739 & H. E. MOORE NO. 6543. ①

FORESTED HILLS ABOVE PALMAR NORTE - 2000-2500 FT. - TRAIL TO BUENOS AIRES - MARCH 12, 1953 - WITH H.E. MOORE

6757- *CARPOTROCHE PLATYPTERA* - WINGED FRUITS PALE GREEN. SEE PHOTO. ①

6758- *GEONOMA* SP. AFF. *G. BINERVIA* - SINGLE TRUNKED PALM, 9 FT. - TRUNK UNARMED, ABOUT 1½" DIAM. LOOKS LIKE A SMALL-FRUITED FORM OF *G. BINERVIA*. ONLY ONE SPECIMEN SEEN. RACHIS OF SPADIX PURPLE. ①
SEE H.E. MOORE 6546

6759- *CHAMAEDOREA* SP. - SINGLE-TRUNKED, UNARMED PALM, 8 FT. SPADICES ERECT. RACHIS OF SPADIX ORANGE. SEE H.E. MOORE 6550. LIVE FRONDS 5-6. ①

6760- *SYNECHANTHUS ANGUSTIFOLIUS* - NOTE ELONGATE FRUITS !! SEE ALSO NO. 6751 - FRUITS ORANGE.

6544

wendlandiana?
lower portion often decumbent, with adventitious roots

6761- Chamaedorea - single trunk, 10 ft. - See H.E. Moore 6547 - Canes green & ringed. ①

woodsoniana? (3-5)

6762- Chamaedorea - multiple stems, to about 25 ft. Scapes pendulous - rachis bright orange, fruits black. See H.E. Moore 6549. - Live fronds ①
4-5.

gigantea

6763- Iriartea sp. Single-trunked, unarmed palms, to 90-100 ft. - Trunks 9-10" in diameter. Stilt roots unarmed, or only slightly prickly, densely crowded, seldom exceeding 3-4 ft. in height. Young specimens without stilts. Mature trunks extremely hard. Spathes pendulous, horn-like, produced below the crownshaft. Flowers pale yellow. See photos.
See H.E. Moore 6555 - Stamens **14**.

aff. H. lehmannii

6764- Hyospathe - unarmed, stoloniferous palm, with 3-**10**- slender canes 9-15 ft. in height. General aspect of Chamaedorea pacaya - See H.E. Moore 6544. Very common. Live fronds about ①
8-10. Spadices in fruit infrafoliar.
Seeds 11 mm. long & 4 mm. wide.

6765- BACTRIS - SPINY, STOLONIFEROUS PALM, WITH 3-6 CANES 6-10 FT. IN HEIGHT. FRONDS BIFID, ENTIRE. FREQUENT IN FOREST - CANES ABOUT ½" IN DIAM. ①
LIVE FRONDS 4-5, SPINY OR UNARMED, ON THE SAME PLANT. CANES ALWAYS SPINY.

6766- EUTERPE - SINGLE TRUNKED, UNARMED PALM. MATURE SPECIMENS ABOUT 65 FT. IN HEIGHT & 10" IN DIAMETER. COMMON IN FOREST ABOVE 2000 FT. SEE ALSO H.E. MOORE NO. 6553. FRUITS GLOBOSE - 9-10 MM. IN DIAM. ①

6767- CHAMAEDOREA SP. - DWARF, SINGLE-STEMMED PALMS, TO ABOUT 6-7 FT. TO THE TIPS OF THE BIFID, ENTIRE FRONDS. INFLORESCENCES ERECT, UNBRANCHED SPIKES. RACHIS ORANGE, MATURE FRUITS SCARLET. SEE PHOTO. SEE H.E. MOORE 6551. ①

PASTURES NEAR PALMAR - 200 FT. - MARCH 15, 1953
WITH H.E. MOORE

6768- COROZO OLEIFERA - SEE PHOTOS. ①

CASEARIA ARBOREA
6769- ~~XYLOSMA EXCELSUM~~ ? - SLENDER TREE, 50 FT. BRANCHES HAVE THE GENERAL ASPECT OF XYLOPIA. FLOWERS WHITE. ⑥

ESQUINAS FOREST - 200 M. MARCH 9, 1953 - WITH H.E. MOORE

6770 - WELFIA GEORGII

HILLS NEAR PALMAR SUR - 200 M. MARCH 15, 1953

6771 - ASTROCARYUM STANDLEYANUM - FRUITS ONLY.
NOTE SMALL SIZE. ①

COCONUT GROVE, FLORIDA

6772 - ARISTOLOCHIA PANDURATA JACQ. - VAR. WARSCEWICZII
DUCH. - CULTIVATED AT THE KAMPONG - COLLECTED
BY DR. DAVID FAIRCHILD IN PANAMA. ①

Plants of Honduras

Vicinity of Zamorano, valley of the Rio Yeguare - Dept. de Morazan - 2700 ft. May 4, 1955.

6773 - Bursera - common tree, grown for living fence posts - differs in puberulence, ramifications of inflorescence and bark color from B. simaruba. ④

Area of La Montañita, hills east of Tegucigalpa, 5200 ft. March 10, 1956

6774 - Epidendrum parkinsonianum - epiphytic on Diphysa(?). Sepals & petals pale yellow. Lip white, flowers fragrant, especially in the early evening. Flowers are yellow. New record for Honduras. ①

Plants of Guatemala

Vicinity of Patzun, Dept. of Chimaltenango 5000 ft. April 8, 1956

6775 - Shrub, 6 ft., with bright yellow flowers, very common along roadsides, and in cultivated fields, where it seems to be left and to a certain extent encouraged or protected. ①

Vicinity of Asunción Mita, Dept. of Jutiapa. 1000 Ft. April 10, 1956

6776 - Astianthus viminalis (HBK.) Baill.
Tree, 35 Ft.; with bright yellow flowers
locally common along rivers, forming
small colonies. ②

Plants of Honduras.

Hills above Suyapa, 4000 Ft. - April 14, 1956.

6777 - Cyrtopodium punctatum (L.) Lindl.
Plants form small local colonies on
rocky outcrops. ③

Hills near Las Mesas, 3200 Ft. April 15, 1956

6778 - Oncidium ensatum Lindl. - Terrestrial
on steep banks and rocky outcrops north of
Highway. ②

Rio Yeguare, Dept. of Paraiso - 2800 ft.
April 16, 1956

maculatum Lindl.

6779- Oncidium - Sepals & petals yellow, heavily blotched brown. Frontal lobe of lip pale yellow, blotched brown below the callus. Lateral lobes of lip and column white. Callus white, with narrow brown parallel, longitudinal stripes. Anther cap yellow. Epiphytic colony of 6-8 plants on Ficus. Rare, but a similar larger plant has been collected in sterile condition on Uyuca by Dyckman. ①

Rocky canyon west of La Montañita, in hills above Suyapa. 4500 ft. July 29, 1956.

6780- Costus - plants about 6-7 ft. tall, growing in wet, shaded places along stream. Bracts green. Flowers orange, with red near heads. ⑤

6781- Peperomia mexicana Miquel - on rocky cliffs. ①

Guinope - Dept. del Paraiso - 4500 ft. Dec. 19, 1956

6782 - Mormodes sinuata - Epiphytic in coffee finca - lip rich yellow - sepals & petals light brown - column reddish - fairly pronounced aromatic fragrance in the morning. - Photo - See Santa Barbara specimens ①

This would appear to be the only Mormodes present in the Honduran Highlands -

Tegucigalpa market - Plants flowered in cultivation at the Escuela Agricola Panamericana Jan. 15, 1957

6783 - Group of five flowers of Oncidium splendidum showing range of variation - Photo ①

Rio Chamelecon, near La Lima, Dept. Atlantida, Aug. 17, 1957 - Sea level.

6784 - Gynerium sagittatum - Collected at request of Research Dept. for testing for paper pulp. ①

Hills above Suyapa, near Kil. 13, Dept. of Morazan.
4500 ft. Sept. 7, 1957 -

6785 - Mormodes aromaticum? - Sepals, petals & lip pale pinkish yellow, very densely spotted reddish brown, with the apical lobe of the lip assuming the form of a miniature, dark red shoe or slipper. Fragrance apparent, but not particularly powerful. Spikes - 2-7 flowered, the flowers more or less distichously arranged on the scape. Sepals & petals closely confluent, forming a concave hood over the lip. Epiphytic on rotten pine branches in full sun. *Very rare*. ①

Hills east of the Yeguare Valley, Dept. of Morazan -
3200 ft. October 28, 1957.

6786 - *Epidendrum* *Doroteae* - natural hybrid between Epid. nocturnum and Epid. ciliare. Sepals & petals pale yellow. lip ~~[illegible]~~ white, with a yellow basal callus - Flowers fragrant at night. See photos - *Type* to be sent to Cambridge - ②

Only one plant seen, epiphytic on Quercus.

Plants of El Salvador

(Collected in company with Robert Armour)

Tablon Los Mangos, Finca Bonaire, Dept. of La Libertad, near Talnique - Elevation about 2000 ft. - Feb. 13, 1958 -

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6787 - Simarouba glauca - Row 6, tree 7 - A.H. 55 - Inflorescences largely hermaphroditic, with some branches bearing purely male flowers - White variety - (pickle) ⑥

6788 - Simarouba glauca - Row 1, tree 6 - A.H. 55 Inflorescences largely hermaphroditic, but with many male flowers. Black variety - (pickle) - ⑦

6789 - Simarouba glauca - Brannon tree - Native - Inflorescences strictly pistillate - Has yielded 204 lbs. of fruit in the dry season - Used at Finca Bonaire as a source of grafting material - White variety - (pickle) ⑤

Finca Altamira, hills above San Salvador, Dept. of San Salvador - ~~Arbol Siman~~ - Tablon Calixto - About 2500 ft. - Feb. 13, 1958

6790 - Simarouba glauca - Arbol Siman - Inflorescences mixed, of hermaphrodites and males, the hermaphrodites without a pistil. Black variety (pickle) - ③

This tree set not a single fruit, which is what would have been expected -

Finca Lourdes - Vcty. San Salvador - Tablon El Cedro - About 2200 ft. - Feb. 14, 1958

6791 - Simarouba glauca - Hermaphroditic tree, but with some inflorescences composed of purely male flowers - F.A. 58 - (pickled) ⑥

Finca San Ignacio - About 16 kilometers north of Chalchuapa - Dept. of Santa Ana - Feb. 15, 1958

6792 - Simarouba glauca - Tree named "Luisito blanco" - Tablon Las Caobas - Selected pistillate tree, with heavy production - white variety (pickled of flowers & fruits) - ⑥ (fruits) - ⑥

6793 - Simarouba glauca - Tree called "Luison negro" Selected high-yielding tree - black variety. (pickled of flowers & fruits) - ⑫

Finca Buenos Aires - Volcan Santa Ana - 4950 ft. Feb. 16, 1958 - Dept. Santa Ana -

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6794 - Montanoa guatemalensis Rob. & Greenm. - (possibly aff. pumicola Klatt) - Tree, to about 65 ft. & 18" in trunk diam. Ray florets white - showy & common - Local name reported as "Astado" - Apparently new to El Salvador - common on cutover land at Cerro Verde - ⑥

Upper slopes of Volcan Santa Ana, area of virgin forest known as "El Comun" - Dept. of Santa Ana - about 6500 ft. - Feb. 16, 1958 -

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6795 - Clethra pachecoana Standl. & Steyerm. - Tree, 10-80 ft. in height - Flowers white - Older specimens very conspicuous, with dark, broken crowns on ridge above Los Andes - Young trees common along trails - Apparently new to El Salvador - (6)

6796 - Passiflora membranacea Benth. - Vine - in open second growth - Calyx pink - Corolla pale yellow - Not in Standley & Calderon - (2)

6797 - Smilacina paniculata Mart. & Gal. - Epiphyte - Flowers white, with wine-red pistils - Note fleshy rhizome! — (1)

Upper slopes of Volcan Santa Ana - cleared & cultivated area known as "Los Andes" - about 5500 ft. Feb. 16, 1958.

Common on cutover land on Cerro Verde,

6798 - Citharexylum donnell-smithii Greenm. - Tree to about 60 ft. & 15" in trunk diam. Flowers white - Fruits orange, conspicuous. Local name reported as "Chorrito" - (12)

Hacienda "La Cabaña" - Dept. of San Salvador - Area North of Guazapa - 900 Ft. - Feb. 17, 1958

6799 - *Simarouba glauca* - Tablon La Seccion - Pa. 58 - Tree 3, in line with road - Hermaphrodite, with male - ⑥

Carretera del Oriente, Kil. 67 - Area East of San Vicente - Dept. of San Vicente - 1300 Ft. - Feb. 18, 1958

6800 - *Simarouba glauca* - Tree known as "Sambo" A fairly typical pistillate tree, of the *Negro variety* - which is reported to produce fruits intermediate in character between these and the *Blanco* type - ⑥

Finca "Alta Mira" - Hills above San Salvador - About 2500 Ft. - Feb. 21, 1958

6801 - *Sickingia salvadorensis* Standl. - Slender tree, 20 Ft. - Common name reported as "Brasil" ③

Dept. La Libertad - Road to Tamanique - 1500 ft. - March 18, 1958 - with Robert Armour.

Ladenbergia macrantha Standl.

6802 - Tree, to about 65 ft., but frequently less, often with multiple trunks, or with a very low, erect, branching trunks. Inflorescences green, pendulous, conspicuous from a distance. Local name given (twice) as "Siete pellejos" Infrequent - Euphorbiaceae - ? ⑥

Hacienda "La Cabaña" - Dept. San Salvador - area north of Guazapa - 900 ft. - March 26, 1958 -

6803 - Simarouba glauca DC. - Fruiting specimens from same hermaphroditic tree as No. 6799 - Still has a few branches in flower - Fruits yellow, dull-translucent when ripe - pulp juicy, sweet, slightly astringent, very reminiscent of fruits of Eugenia cumini (Jambolan plum) - might be tried for jelly, using same receipt. Black variety slightly poorer in quality (not as sweet.) Kernel usually intensely bitter, but with rare specimens in which the flavor approaches that of unroasted peanuts - All poisonous, whether bitter or sweet, if eaten in quantity. Branches very brittle. About 50% of fruits "vano" or parthenocarpic. ⑧

NEEA PSYCHOTRIOIDES DONN.SM.

6804 - ~~Sommera~~? - TREE, TO ABOUT 20 FT. - FLOWERS DARK yellow, in pendulous clusters - FAINTLY FRAGRANT - OCCASIONAL ALONG STREAMS - ⑦

VCTY. KM. 67 - NATIONAL HIGHWAY - AREA NORTH-EAST OF SAN VICENTE - DEPT. OF SAN VICENTE - 1300 FT. MARCH 27, 1958

6805 - ACACIA PENNATULA (SCHLECHT. & CHAM.) BENTH. - TREE, WITH FLAT-TOPPED CROWN AND SHAGGY BARK - FLOWERS YELLOW, FRAGRANT - INFUSION OF BARK REPORTED TO BE USED MEDICINALLY. "ESPINO RUCO" ⑥

6806 - BYRSONIMA CRASSIFOLIA (L.) DC. - "NANCE" - FLS. YELLOW, TURNING DEEP REDDISH ORANGE WITH AGE - FRUITS YELLOW - FREQUENT - ⑥

6807 - CORDIA DENTATA POIR. ~~ALBA (JACQ.) ROEM. & SCHULT.~~ "TIGUILOTE" - FLOWERS WHITE OR PALE YELLOW - FRUITS WHITE, TRANSLUCENT - COMMON IN HEDGE ROWS - PLANTED FROM STAKE CUTTINGS, IN THE MANNER OF BURSERA OR SPONDIAS. STRAIGHT BRANCHES USED FOR LINING, STAKES. WOOD ESTEEMED FOR FUEL & OX YOKES. ONE OF THE VERY COMMON LIVING FENCE POSTS OF THE COUNTRY. ⑦

6808 - Vernonia patens H.B.K. - Shrub or small tree, to about 18 ft. - Fruits white or grey - conspicuous from a distance - ⑥

6809 - Cassia grandis L.f. - Tree, to about 45 ft. - Flowers pink - Frequent - "Carao" ⑦

6810 - Simarouba glauca DC. - Sambo tree - Same as No. 6800 - Fruits black at maturity - & typical of negro variety - Immature fruits not quite as brightly coloured as usual - Tree bears heavy crops - which are harvested by local people - ⑥

6811 - Spondias purpurea L. - Fruits oblong in profile small smooth, red, sour thin skinned - branches often with short - spine-like spurs - up to 4-5" in length - called "jocote pitarillo" by local people - commonly planted as living fence posts, but seldom eaten - ⑥

6812 - Spondias purpurea L. - Fruits large, oblong in profile smooth, but often with a slightly undulant surface, or with shallow longitudinal markings - red, acidulous, thin skinned, without spine-like spurs - apple-like in quality, with a thick, agreeable flesh - "jocote veraneño" cultivated. ③

6813 - Spondias purpurea L. - Fruits rather small, obovate & somewhat angular in profile - Terminal end largest in diameter - mature late in the dry season - color reported to be red - Skin thin - Quality reported to be good - Cultivated - "Jocote tras-tras de verano" ③

6814 - Spondias purpurea L. - Fruits oblong in outline - Skin thin - Smooth - yellow when ripe - Cultivated - Sweet to taste - "Jocote Turco" ③ Size about same as "Jocote veraneño"

Finca San Ignacio - about 16 kilometers north of Chalchuapa - Dept. of Santa Ana - April, 1, 1958 -

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6815 - Inga paterno Harms - Tree - to about 50 ft. - Fls. white - grown for coffee shade. "Paterno" ⑨

6816 - Simarouba glauca DC. - "Luisito blanco" - Same as no. 6792 - Fruits white - see pickle - ⑥

6817. Simarouba glauca - "Luison negro" Same tree as no. 6793 - Fruits black - See pickle - ⑥

6818 - Ficus Hemsleyana Standl. - Spreading tree, to about 45 ft. "Amate" - common - ③

6819 - Muntingia calabura L. - Spreading tree, 15 ft. - Fls. white - Fruits red, sweet, edible - "Capulin" common - ③

6820 - Sapium macrocarpum Muell. Arg. - Tree - 60 ft. - white, sticky latex - "Chilamate" - common - ③

6821 - ~~Oliganthes~~ Vernonia triflosculosa HBK. - Tree - 60 ft. - Fls. white - "Suquinay negro" - frequent - ③

6822 - Sapindus saponaria L. - Tree - 30 ft. - Fruits waxy - translucent yellow - "Pacun" ③

6823 - Psidium guajava L. - Tree - 12 ft. - Fls. white - ③

Upper slopes of Volcan Santa Ana - Area of original forest known locally as "El Comun" Dept. of Santa Ana - about 6500 ft. - 7500 ft. April 3, 1958 -

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6824 - Epiphytic cactus with pendulous stems to 8-10 ft. in length - Petals scarlet, anthers rich purple - Showy & very common - ④

6825 - RONDELETIA? - SHRUB OR TREE, TO ABOUT 25 FT.
FLS. RED, INFLORESCENCES PENDULOUS - VERY
COMMON - DOMINANT UNDERSTORY TREE - ⑥

TOURNEFORTIA PETIOLARIS DC.
6826 - BORAGINACEAE - SHRUB OR TREE TO ABOUT 18 FT.
FRUITS WHITE, TRANSLUCENT - FREQUENT IN FOREST.
④

GAULTHERIA ODORATA WILLD.
6827 - ERICACEAE - SHRUB - 2-3 FT. - FLS. PALE PINK.
BRACTS DARK PINK - FRUITS BLACK - SWEETISH,
EDIBLE "PASA" - DOMINANT OVER WIDE
AREAS NEAR CRATER - ⑫

OREOPANAX XALAPENSE (HBK) DCNE. & PL.
6828 - ~~DENDROPANAX~~ - TREE - TO ABOUT 65 FT.
FRUITS BLACK - FREQUENT IN FOREST - ③
"MANO DE LEON"

FINCA LOURDES - VCTY. SAN SALVADOR - TABLON EL
CEDRO - ABOUT 2200 FT. - APRIL 7, 1958 -

6829 - SIMAROUBA GLAUCA - SAME AS NO. 6791 -
MALE, WITH HERMAPHRODITES - STILL IN FLOWER (MALE)
IN TOP OF TREE - NOTE SCANTY SET OF FRUIT. ⑥

Finca Bonaire - Tablon Los Mangos - Dept. de La Libertad - Near Tarnique - About 2000 Ft. - April 7, 1958

6830 - Simarouba glauca DC. - Same tree as No. 6787 - Hermaphrodite - Note scanty set of fruit. ⑦ Crown still in flower -

6831 - Simarouba glauca DC. - Same tree as No. 6788 - Hermaphrodite - Has many more fruits than ⑥ black variety.

6832 - Simarouba glauca DC. - Brannon tree - Same as 6789 - White variety. ⑥

6833 - Erythrina Berteroana Urban - Tree - to about 18 Ft. Flowers red - commonly grown for living fence posts - ④

SEA BEACHES AND ROCKY HEADLANDS SOUTH OF ACAJUTLA - DEPT. OF SONSONATE - SEA LEVEL - APRIL 11, 1958

NOTE: THIS AREA IS EXTREMELY DRY AT THIS SEASON, WITH MUCH OF THE VEGETATION DEAD OR COMPLETELY DECIDUOUS - COMMON PLANTS INCLUDE PLUMERIA (IN FLOWER) ACACIA CORNIGERA (OR HINDSII) CONOCARPUS ERECTUS (DOMINANT ALONG LONG STRETCHES OF SEA BEACH, GYROCARPUS (OCCASIONAL) COCHLOSPERMUM, STERCULIA APETALA (FREQUENT) HIPPOMANE (FREQUENT), A BROAD-LEAVED FICUS, AND TREES LISTED BELOW -

6834 - GUAZUMA ULMIFOLIA LAM. - SHRUB OR SMALL TREE, TO ABOUT 18 FT. - FLS. TAN - FREQUENT - "CAULOTE" ④

6835 - CONOCARPUS ERECTA L. - SHRUB OR TREE, THE OLDER SPECIMENS WITH TWISTED TRUNKS AND DEEPLY FURROWED BARK - DOMINANT ALONG MUCH OF BEACH. "BOTONCILLO" ④

6836 - HIPPOMANE MANCINELLA L. - TREE, WITH ROUNDED CROWN, TO ABOUT 35 FT. IN HEIGHT - FREQUENT, ~~AS~~ ISOLATED SPECIMENS, OR IN SMALL COLONIES, BUT NOT DOMINANT - "MANZANILLO" FLS. GREENISH YELLOW - ⑥

6837 - Avicennia nitida Jacq.
Tree - to about 50 ft. - Fls. yellowish white - occasional along beach, but not very common - "Istaten" (6)

6838 - Thevetia plumeriaefolia Benth. - Shrub or small tree - to about 12 ft. - Flowers bright yellow - occasional - milky latex - (6)

6839 - Sterculia apetala (Jacq.) Karst. - Tree - to about 60 ft. Frequent throughout area - (6)

Finca Altamira - Hills above San Salvador - Dept. of San Salvador - 2500-2800 ft. - April 14, 1958

6840 - Stemmadenia Donnell-Smithii (Rose) Woodson - Tree - 45 ft. - Fls. deep yellow (both flowers & fruits present at this season) "Colon" - Frequent - (5)

6841 - Cupania guatemalensis Radlk.
Bushy tree - 35 ft - Sapindaceae - Fruits pink - "Cola de pavo" Infrequent - (5)

6842 - Conostegia xalapensis (Bonpl.) Don ~~Clidemia~~ - Bushy tree - 18 ft. - Fls. pink - "Pajelillo" - Infrequent - (5)

Rensoniana Standl.
6843 - Rollinia - Tree, 30 ft. - Fls. green - Fruit reported edible - "Chulumuyu" (5)

Elastica Cervantes
6844 - Castilla - Tree - 40 ft. - Fruits bright orange when ripe - "Hule" reported to yield good rubber - (5)

Dcne. & Planch.
6845 - Dendropanax (?) arboreum - Tree - 45 ft. Fruits black - "Mano de leon" - Common (5)

Ferruginosa Brongn.
6846 - Colubrina - Slender tree - 30 ft. Flower buds brown - "Chaquirio" (5)

Lagopus Swartz
6847 - Ochroma - Spreading, round-topped tree - 50 ft. - "Algodon" - Common - (5)

Vcty. Apopa - Dept. of San Salvador - Hacienda Buena Vista - 1850 ft. - April 17, 1958

Spadicigera Schlecht. & Cham.
6848 - Acacia ~~cornigera ?~~ - Tree - 18 ft. - Fls. yellow - Fruits red - Common - Infested by stinging ants - "Cutupito" - Fruits edible - (5)

macrocarpum Muell. Arg.
6849 - Sapium - Tree, to 60 ft. - "Chilamate"
Milky latex - common - ⑤

Jacq.
6850 - Tabernaemontana amygdalifolia - Small tree,
to about 12-15 ft. - Fls. white - ⑤

- Randia aculeata L.
6851 - Shrub or small tree - to about 18 ft.
Fls. white - Intensely fragrant - perfumes
the air for some distance - Very common
understory plant - Branches spiny - ⑤

(Jacq.) Urban.
6852 - Tabebuia chrysantha - Round-topped
tree - to about 45 ft. - Fls. bright yellow -
Frequent on hillsides - ⑤

Cerro Verde - Dept. of Santa Ana - About 5000-5500 ft.
April 18, 1958

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argenteus Presl.
6853 - Styrax ? - Tree - 25 ft. - Fairly common - ⑤
Along road to Hotel in cloud forest, on steep
slopes -

6854 - Lonchocarpus - Tree - to about 50 ft. -
Fls. lavender - Fairly showy - "Chaperno"
occasional below cloud forest - ⑤

ARBOREA WATS.
6855- BOCCONIA ~~FRUTESCENS~~ - BUSHY TREE, TO
ABOUT 35 FT. BARK CORKY, WITH VERTICAL
FISSURES - INNER BARK BRIGHT ORANGE -
SAP ORANGE - "COJAPAPAYO" ⑤

FINCA ALTAMIRA - HILLS SOUTH OF SAN SALVADOR -
DEPT. SAN SALVADOR - 2800 FT. - APRIL 22, 1958

VAR. PEREIRAE (ROYLE) HARMS
6856 - MYROXYLON BALSAMUM - TREE - 65 FT.
FLOWERS WHITE (SINGLE SPATULATE PETAL - LARGER THAN OTHERS) -
"BALSAMO" - PROBABLY PLANTED - ⑧

MARGINS OF LAVA FLOW - AREA EAST OF SITIO DEL NIÑO -
(VERY OLD LAVA - 1917 FLOW IS BARE OF VEGETACIÓN)
APRIL 22, 1958 - DEPT. LA LIBERTAD -

(L.) SARG.
6857 - BURSERA SIMAROUBA - TREE - 20 FT. - COMMON - ⑤

MEXICANA VESQUE?
6858 - CLUSIA - LARGE SHRUB OR BUSHY TREE WITH
DENSE, ROUNDED CROWN - 10 - 12 FT. ⑤

BIPINNATA (SESSE & MOC.) ENGLER
6859 - BURSERA - TREE - 15 FT. - FLS. GREENISH
WHITE - SAP WITH A STRONG AROMATIC ODOR -
COMMON - ⑤

CUNEATA JACQ.
6860 - TRICHILIA - TREE - 20 FT. FRUITS BRIGHT YELLOW - ⑤
- COMPARE WITH HEBEBOTRYUM!

EUPATORIUM JUTICALPENSE STANDL. & L. WMS.
6861 - COMPOSIT - SHRUB OR SMALL TREE, WITH WHITE FRAGRANT FLOWERS (MOSTLY PAST AT THIS SEASON) - BRANCHES VERY BRITTLE - APPARENTLY DECIDUOUS AT HEIGHT OF FLOWERING SEASON - ⑤

RUBRA FORMA ACUTIFOLIA (POIR.) WOODSON
6862 - PLUMERIA - TREE - 10-15 FT. - FLS. WHITE - VERY FRAGRANT - COPIOUS LATEX - COMMON - ⑤

VCTY. KIL. 82 - NATIONAL HIGHWAY - WEST OF PUENTE CUSCATLAN - DEPT. OF SAN VICENTE - 1200 FT. APRIL 24, 1958 -

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COLLOCOCCA L.
6863 - CORDIA - TREE, WITH ROUNDED CROWN - FRUITS SHINING, BLOOD RED, IN SHOWY, PENDULOUS CLUSTERS. EDIBLE, BUT RATHER INSIPID, & SLIGHTLY ASTRINGENT. "MANUNO" - RARE - ⑤

NORTHERN SLOPES OF VOLCAN CONCHAGUA - DEPT. OF LA UNION - 1350 FT. - April 24, 1958

6864 - SAPRANTHUS NICARAGUENSIS (SEEM.) STANDL. - SLENDER TREE, 20 FT. - FLS. GREEN, BECOMING RAISIN PURPLE & FOETID IN ODOR AT MATURITY - PENDULOUS - "FLOR DE PALANCO" - INFREQUENT - ⑤

RIO TOROLA & AREA NORTH OF CAROLINA, DEPT. OF SAN MIGUEL - 690 FT. - April 25, 1958

6865 - CASEARIA NITIDA (L.) JACQ. SHRUB OR SMALL TREE - TO ABOUT 12 FT. FLS. WHITE, FRAGRANT - FREQUENT - ⑤

VCTY. SAN ANTONIO - AREA NORTH OF CIUDAD BARRIOS - DEPT. OF SAN MIGUEL - 2200 FT. - April 25, 1958

6866 - APEIBA TIBOURBOU AUBL. - SPREADING TREE - 20 FT. SEPALS GREENISH YELLOW - PETALS DEEP, RICH YELLOW - "BURILLO" - VERY COMMON ON CUTOVER LAND - ⑤

6867 - BAUHINIA PAULETIA PERS. - TREE - 15 FT. - FLS. WHITE - BRANCHES SPINY - ⑤

ALBICANS (SWARTZ) TRIANA

6868 - MICONIA - SHRUB OR SMALL TREE - TO ABOUT
12 FT. - FLS. WHITE - COMMON ON CUTOVER
LAND - "SIRINCITO" ⑤

(SW.) DC.

6869 - MICONIA ARGENTEA - TREE - TO ABOUT 25-30
FT. & TRUNK TO ABOUT 12" DIAM. - FRUITS
GREEN, BECOMING PURPLE & JUICY WHEN RIPE -
"SIRIN MACHO" - VERY COMMON THROUGHOUT
THE AREA - ⑤

VOLCAN DE SANTA ANA - FORESTED AREA KNOWN AS
"EL COMUN" - 6000-6500 FT. - DEPT. OF SANTA ANA -
April 26, 1958

ZINOWIEWIA INTEGERRIMA TURCZ.

6870 - TREE - TO ABOUT 90 FT. - BUT FREQUENTLY
MUCH LESS, PARTICULARLY IN CUTOVER LAND FACING
LAKE COATEPEQUE - LEAF PETIOLES & STEMS
OF FLUSHES OF NEW GROWTH PINK - ONE
OF THE DOMINANT ELEMENTS, FORMING PART OF
THE CANOPY, IN UNDISTURBED FOREST - "CULEBRO"
FLS. YELLOWISH GREEN - VITACEAE ?? ⑤

TOLUCANA Hemsl.

6871 - ILEX - TREE, TO ABOUT 90 FT. - BUT FREQUENTLY
LITTLE MORE THAN A SHRUB, PARTICULARLY ON
THE CUTOVER LANDS FACING LAKE COATEPEQUE -
FLOWERS WHITE - FRUITS RED - FRUITS
OF LARGE TREES SHOWY FROM A DISTANCE.
COMMON - ⑤

guatemalense Gandoger
6872 - Viburnum - Shrub or small tree - to about 12 ft. - Fls. white - Fruits dark purple - very common on slopes facing Coatepeque - (5)

kegeliana Schlecht.
6873 - Saurauia - Tree - to about 30 ft. - Flushes of new leaves red - common - (4)

Rhamnus capreaefolia Schlecht.
6874 - Tree - 65 ft - Fls. white - Fruits red - Sap with aromatic odor - Heartwood reported yellow - "Yema de Huevo" common in primary forest - (5)

Sims
6875 - Fuchsia arborescens - Tree - 25 ft. trunk 10" diam. - Fls. purple - Fruits dark blue - frequent. - "Confite" (5)

Cestrum pacayense Francey
6876 - Shrub or small tree - to about 18 ft - Fruits white - common both in primary forest and on cutover land - Solanaceae (5)

Capsicum stramoniifolium (HBK.) Kuntze
6877 - ~~Solanum~~ - Slender tree - 18 ft -- Fls. pale yellow - Fruits red - occasional in primary forest - (5)

~~micheliana Harms~~?
6878 - Inga - Tree - to about 80 ft. - Fls. white, fairly conspicuous from a distance, mostly because of the tan rachis. Inflorescences erect, usually much larger than in present specimens - Common in primary forest - reaches canopy - (5)

Collected by Mario Lainy van Severen

6879 - Epiphyte - Sepals & petals greenish yellow - marked reddish brown - lip white, marked reddish brown - Rare - Leochilus? ①

6880 - Alnus arguta (Schlecht.) Spach - Tree - to about 60 ft. - very common on margins of forest & cutover land - "Jinabete" ⑤

6881 - Baccharis vaccinioides HBK. Shrub or small tree - 6-8 ft - Leaves resinous - Common on cutover land facing Coatepeque - ⑤

6882 - Styrax argenteus Presl (Bushy) tree - 14 ft. - very common on cutover land facing Coatepeque - ⑤

6883 - Myrica ~~mexicana Willd.~~ cerifera L. Shrub or small tree - 6-8 ft. - very common on cutover land facing Coatepeque. ⑤

National Highway, vcty. Kil. 72 - Dept. of San Vicente - About 1200 ft. elevation. July 30, 1958 -

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6884 - Poeppigia procera Presl - "Tepemiste" - Tree, to about 75 ft. - Flowers yellow, fairly showy - slightly fragrant. Wood reported to be resistant to decay in contact with the ground, and to be used for house posts etc. - Occasional in eastern half of country - ⑩

Vcty. San Martin - National Highway - Dept. of San Salvador -
Elev. about 2000 ft. July 30, 1958

6885 - Licania platypus (Hemsl.) Fritsch
Tree, to about 50 ft., with conspicuous terminal panicles of small white flowers, superficially like the inflorescences of the common mango. Licania or Couepia - "Sunzano" - brown fruits like those of Licania seen - cultivated & naturalized. (8)

Laguna del Jocotal - Dept. de San Miguel - 600 ft. - Aug. 28, 1958 -
with Mario Lewy van Severen -

6886 - Stemmadenia ~~glabra Benth.~~ obovata (H. & A.) Schum.
Small tree - 10-20 ft. - flowers yellow, showy - frequent. (6)

6887 - Caesalpinia pulcherrima (L.) Swartz - Shrub or small tree, to about 12 ft. - Fls. red, marked with yellow - persistent or naturalized - occasional - (4)

6888 - Sapium macrocarpum Muell. - Tree, to about 60 ft. - common - (8)

6889 - Ficus glabrata HBK - Large, spreading tree, with smooth gray bark and moderately buttressed trunk - height to about 65-75 ft. - very common. (6)

6890 - ~~Cedrela~~ Spondias Radlkoferi Donn. Sm. Tree, to about 75 ft. - occasional (5)

6891 - Achatocarpus nigricans Triana
Bushy tree - 30 ft. - young branches often armed with short, sharp spines - bark reddish-brown - flaking - fls. greenish white - "Limoncillo". (8)

6892 - Crataeva tapia L. - Tree - to about 60 ft. & 24" trunk diameter. "Matasanillo" - Frequent - ⑥

6893 - Martynia diandra Glox. - Stout herb - 5 ft. - Fls. white, marked with purple spots - leaves very resinous. ①

6894 - Aegiphila martinicensis Jacq. - Shrub, 8 ft. - Fls. ~~[illegible]~~ yellowish white, in pendulous or arching panicles - ⑤

6895 - Chlorophora tinctoria (L.) Gaud. - Tree - to about 65 ft. - Staminate catkins pale yellow - Frequent - ⑥

Colinas de Jucuarán - Dept. of San Miguel - Carretera al Litoral - about 2500-3000 ft. - Aug. 28, 1958 - with Mario Lowy van Severen -

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6896 - Brosimum alicastrum Swartz - Tree - to about 75 ft. & 30" trunk diam., with milky (bitter) latex and pale gray, often scaling bark - Fruits reddish-brown when mature - Trees occur in nearly pure stands on crest of divide - ⑥

Vcn. Estero de Jaltepeque - Dept. of San Vicente - Sea level - Aug. 21, 1958 -

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6897 - Sabal mexicana Mart. - Mature specimens average about 25-30 ft. in height, forming nearly pure stands on poorly drained land, the leaves having rather the appearance of the Trans-Andean

Distinguished from Texana by erect petals & stamens & filiform terminations to leaf segments - known from Guatemala.

"Morichales" when seen from a distance. Called "Palma llanera" locally & used for the manufacture of hats, and for thatch. Reported to flower in November. (1)

San Salvador - Dept. of San Salvador - Colonia de San Benito - Elevation about 2400 ft. - Sept. 3, 1958

6898 - Lonchocarpus rugosus Benth. - Spreading tree, to about 30 ft. "Chapulaltapa" - occasional in dooryards and on vacant land - (6)

Vcty. Atiquizaya, Dept. de Ahuachapan, Elev. about 2000 ft. Sept. 11, 1958 -

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6899 - Colubrina ferruginosa Brongn. - Tree, to about 50 ft. - "Chaquiro" - common in hedge rows & apparently planted. - widely distributed in the country - (8)

6900 - Acacia glomerosa Benth. Tree, to about 75 ft., with broad, spreading crown and spiny branches - Flowers white, showy. Local name reported as "Huiste" or "Jalhuiste". Very common and attractive at this season. (8)

6901 - Hymenaea Courbaril L. - Large tree, to about 65-75 ft. - Frequent - (2)

6902 - Acacia pennatula (Schlecht. & Cham.) Benth. Legume - Spreading tree, to about 15 ft. - occasional in fence rows along highway. (8)

6903 - Lonchocarpus minimiflorus Donn. Sm. - tree, to about 65 ft. Fls. purple, in small, erect spikes - not very showy from a distance - "Chaperno" - frequent - ⑧

6904 - Lonchocarpus - tree - to about 50 ft. but often much smaller - fruits reddish brown, in showy, pendulous clusters - "Chaperno". very frequent, often in coffee fincas - ⑧

6905 - Inga Rodrigueziana Pittier ? - Flat-topped tree, to about 25 ft., but frequently flowering when much smaller - flowers white, showy. Occasional in most coffee fincas, but sometimes used exclusively for shade, in nearly pure stands. ⑤

6906 - Sterculia apetala (Jacq.) Karst. - tree - to about 75 ft. - "Castaño" occasional - ③

6907 - Acacia farnesiana (L.) Willd. - occasional in pastures - ⑥ Fls. yellow, very fragrant.

Vcty. Colon - Dept. of La Libertad - 3000 ft. Sept. 11, 1958

6908 - Trema micrantha (L.) Blume var. floridana (Britton) Standl. & Steyerm. - Small, spreading tree, to about 12-15 ft. Fls. greenish white - occasional - ④

6909 - Lafoensia punicifolia DC. - Tree, to about 75 ft. - local name reported as "Mezcal". Flowers pale greenish yellow, turning dark red with age - Rare. ⑧

6910 - Hura polyandra Baill. - Tree, to about 65 ft. - Trunk densely covered with short, sharp spines - Fruits erect on the branches - occasional - ③

Plants of Honduras, vcty. Güinope - (Cafetales) flowered in cultivation Sept. 17, 1958

6911 - Mormodes aromaticum - See notes in files & photo - ①

EL SALVADOR

VCTY. ANTIGUO CUSCATLAN - DEPT. ~~SAN SALVADOR~~, 2800 FT.
SEPT. 19, 1958 -

DCNE. & PL.
6912 - DENDROPANAX ARBOREUM - TREE - 50 FT. - ④
6913 - SIDEROXYLON TEMPISQUE - TREE - 60 FT. ②
(EICHLAM) BRITT. & ROSE
6914 - PERESKIA AUTUMNALIS - HUGE PLANT - TO 9 FT. ②

OLD VOLCANIC BARRANCAS ABOUT 2 MILES EAST OF IZALCO VOLCANO - DEPT. DE SONSONATE - 3000 FT. - SEPT. 21, 1958 - WITH MARIO LEWY VAN SEVEREN -

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JACQ.
6915 - GYROCARPUS AMERICANUS - TREE, 30 FT. - NOT COMMON - FR. GREEN - ⑤
BRACHYSTACHYS CAV.
6916 - AGAVE - FLS. GREEN - SPIKES ABOUT 7 FT. TALL - ⑤
FREQUENT IN GRASSY AREAS.

OLD SECOND GROWTH FOREST, LOWER SLOPES OF CERRO VERDE - 3600 FT. - DEPT. OF SONSONATE - SEPT. 21, 1958 - WITH MARIO LEWY VAN SEVEREN.

— FROM COSTA RICA & NICARAGUA.

PHENAX ~~MEXICANUS WEDD.~~? ANGUSTIFOLIUS (HBK.) WEDD.
BUSHY
6917 - URTICACEAE A TREE, 15 FT. - FLS. PALE PINK. ⑧
PHENAX ? ~~MEXICANUS WEDD.~~
6918 - URTICACEAE - BUSHY TREE - 15 FT. - FLS. DARK ROSE - ⑧
RANDIA PLEIOMERIS STANDL.
6919 - RUBIACEAE. - BUSHY TREE, TO ABOUT 15 FT. WITH SPINY BRANCHES AND DARK GREEN GLOSSY FOLIAGE - FRUITS DARK GREEN, NEARLY GLOBOSE, LUSTROUS - "JIJINANCE" - HOST FOR ONCIDIUM CRISTA-GALLI, WHICH SEEMS TO BE CONFINED TO THIS TREE IN THIS AREA - FREQUENT - ⑧
"JEJENANCE"

Rollinia Rensoniana Standl.
6920 - Tree, to about 45-50 ft. but often fruiting when much smaller - "Chulumuyo" - fruits yellowish when ripe - very common - Edible - Fair quality (sweet but seedy). ⑧

Old volcanic badlands about 2 miles east of Izalco volcano. Dept. de Sonsonate - 3000 ft. - Sept. 21, 1958 - with Mario Lewy van Severen -

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Verbesina guatemalensis Rob. & Greenm.
6921 - Composit - small tree, about 8 ft. - fls. white - conspicuous - not common - ⑧

Leucaena brachycarpa Urban
6922 - Legume - flat-topped tree, 30 ft. - fls. pink - fruits reddish brown - occasional. ⑧

pyramidata L.
6923 - Cornutia - tree - to about 20 ft. - fls. blue - occasional - ⑧

Old second growth - slopes of Cerro Verde - area east of Izalco volcano - 3600 ft. - Dept. of Sonsonate - Sept. 21, 1958 - with Mario Lewy van Severen -

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6924 - Tonduzia stenophylla (Donn.-Smith) Pittier - tree, to about 20 ft. - fls. white - no latex - occasional - ⑯

Oerstediana C.DC.
6925 - Trichilia - Tree - 25 ft. - Fls. greenish white - occasional - (8)

Pisonia Donnell-Smithii Heimerl ex Standl.
6926 - Shrub or bushy tree - to about 18 ft. - lateral branches often spiny - Fls. green - Frequent - (8)

Quaternaria Donn. Sm.
6927 - Picramnia - Tree, to about 18 ft. - Fls. pinkish green - Bark bitter - Frequent. (8)

Revoluta HBK.
6928 - Ardisia - Tree - 18 ft. - Frequent - (8)

Candidum Lindl.
6929 - Trichocentrum - Fls. pinkish white - (1)

Nicaraguensis Benth.
6930 - Cassia - Tree - 30 ft. - Fls. bright yellow, showy - occasional - (8)

Angustifolia Moc. & Sessé
~~fissilis Vellozo~~
6931 - Cedrela - Tree, to about 75 ft. - Fls. pinkish, tan, in conspicuous pendulous clusters - "Cedro" common - (8)

6932 - Piscidia grandifolia (Donn. Sm.) I.M. Johnston - Tree, to about 25 ft. Fls. pale pink - "Palo de Sope" - Frequent. (8)

Randia armata (Sw.) DC.
6933 - Rubiaceae - Tree, to about 18-20 ft. - occasional - (8)

Rchb. f.
6934 - Oncidium crista-galli - on "pipinance" (No. 6919) (1)

(Rose) Woodson
6935 - Stemmadenia donnell-smithii - tree, to about
25 ft. - fls. yellow - fruits paired, fleshy,
pale tan - common - (4)

Pedregal San Isidro - old lava flow east of Izalco volcano -
1800 ft. - Sept. 21, 1958 - with Mario Lucy van Severen -

(Sessé & Moc.) Engler
6936 - Bursera bipinnata - tree, 12-15 ft. - fruits pink -
common - seed black, surrounded by a scarlet (8)
aril.

Hemsleyana Standl.
6937 - Ficus - tree, to about 20 ft. - crown
flat - occasional - (8)

Myriocarpa longipes Liebm.
~~Urera caracasana (Jacq.) Griseb.~~
6938 - Urticaceae - tree, 12 ft. - common - (2)

graveolens (HBK.) Triana & Planch.
6939 - Bursera - tree - 10-20 ft. - very aromatic - (8)

mexicana Vesque
6940 - Clusia - tree - 10-12 ft. - petals white - centers
orange-red - frequent - (8)

costaricana (Liebm.) Miq. & or.
6941 - Ficus - flat-topped tree, to about 30 ft. (usually
less). - common - fruits large - bright red - (8)

sublobatum Robinson
6942 - Liabum - shrub or small tree - 12-15 ft. - common - (1)

Lindl.
6943 - Bletia reflexa - fls. rose - common - (7)

NORTHERN SLOPES OF SANTA ANA VOLCANO, AREA KNOWN LOCALLY AS "EL COMUN" DEPT. OF SANTA ANA - 6000-7000 FT. SEPT. 25, 1958 -

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ZINOWIEWIA INTEGERRIMA TURCZ. - ALSO ON UYUCA.
6944 - TREE, TO ABOUT 80 FT. BUT OFTEN FLOWERING WHEN MUCH SMALLER. FLS. GREEN - MATURE FRUITS WITH A WHITISH WING. "CULEBRO" OR "NARANJILLO" - VERY COMMON AND ONE OF THE DOMINANT ELEMENTS OF THE AREA. (8)

VIBURNUM GUATEMALENSE GANDOGER
6945 - TREE, TO ABOUT 60 FT. & 18" TRUNK DIAM. BUT OFTEN FLOWERING WHEN MUCH SMALLER - FLS. WHITE - VERY COMMON - (8)

URERA CARACASANA (JACQ.) GRISEB. ?
6946 - URTICACEAE - TREE, TO ABOUT 40-50 FT., BUT OFTEN FLOWERING WHEN LITTLE MORE THAN A LARGE SHRUB - FLS. WHITE. "CHICHICASTE BLANCO" - HAS A FEW STINGING HAIRS ON MID-RIB OF LOWER LEAF SURFACE - COMMON - FRUITS ORANGE (DRY SEASON). (8)

6947 - SENECIO ARBORESCENS STEETZ - TREE - TO ABOUT 18 FT. LEAVES ALTERNATE OR OPPOSITE - COMMON - (2)

MYRIOCARPA LONGIPES LIEBM. FORMA
6948 - URTICACEAE - TREE, TO ABOUT 25 FT. · FLOWERING STRANDS PINK - FORMS NEARLY PURE STANDS IN SOME PLACES - COMMON - LEAF PETIOLES & TERMINAL BUDS ROSE PINK · CONSPICUOUS - (8)

ARBOREA WATS.
6949 - BOCCONIA - BUSHY TREE - TO ABOUT 20 FT. - FREQUENT - ⑧

CAPSICUM STRAMONII FOLIUM (HBK.) KUNTZE
6950 - SOLANACEAE - SHRUB OR SMALL TREE, TO ABOUT 12 FT.
FLS. PALE YELLOW - FRUITS RED - COMMON - ⑧

LYCIANTHES ARRAZOLENSIS (COULT. & DISM.) BITTER
6951 - SOLANACEAE - SHRUB OR SMALL TREE, TO ABOUT 12 FT.
FLS. PALE BLUE, WITH A DARKER BLUE STAR-SHAPED BLOTCH -
FRUITS RED - FREQUENT - ⑧

TOURNEFORTIA GLABRA L.
6952 - BORAGINACEAE - SHRUB OR SMALL TREE - 10-12 FT.
FLS. GREENISH WHITE - FRUITS WHITE - FREQUENT - ⑧

PTELEOIDES (HOOK.) WALP.
6953 - PELTOSTIGMA - TREE - TO ABOUT 65 FT. - VERY
COMMON - LEAFLETS 3-5 IN NUMBER - GLOSSY - ⑧
DARK GREEN -

DENDROPANAX ARBOREUS (L.) DCNE. & PL.
6954 - ARALIACEAE - TREE (?) EVIDENTLY LARGE - FALLEN
BRANCH - ①

6955 - EPIDENDRUM - CANES BRANCHING & PENDULOUS, TO ABOUT
4-5 FT. - FREQUENT - ①

PACHECOANA STANDL. & STEYERM.
6956 - CLETHRA - TREE, TO ABOUT 18 FT. - FLS. WHITE,
FRAGRANT, - COMMON ON CUTOVER LAND FACING LAKE
COATEPEQUE - NOTE CURIOUS LEAF BASE. ⑧

6957 - SHRUB OR SMALL TREE - TO ABOUT 18-20 FT.
VERY COMMON. ⑧

~~Micheliana Harms~~.

6958- Inga - Tree, to about 80 ft. - very common - fruits everywhere on trails at this season - ⑥
Same as No. 6878 - "Cuajinicuil".

Pachecoana Standl. & Steyerm.

6959- Clethra - Tree, 90 ft. 36" in trunk diam. Fls. white, fragrant - frequent in primary forest. Probably same as No. 6956 - Flowers larger. etc. ⑧

6960- Pleurothallis Tuerckheimii Schltr. - Flowers deep brownish purple - very common - ①

Plan del Hoyo - Northern slopes of Santa Ana Volcano - Dept. of Santa Ana - 5500 ft. Sept. 25, 1958 -

Annona Cherimola Mill.

6961- Annonaceae - Tree, to about 20 ft. - "Anona de tierra fria" - cultivated. ②

Santa Tecla, Dept. de La Libertad - 3000 ft. Sept. 28, 1958

6962- Sapindus saponaria L. - Fls. white - ③
[illegible]UN"

Finca Altamira - Hills south of San Salvador - 3000 ft.
Sept. 28, 1958 - with Ciro Garcia

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excelsa (Lamb.) R.Br.
6963 - Araucaria - tree, 60 ft. - latex milky, becoming chicle-like on contact with the air - not resinous or fragrant - latex from areas of injury scarlet - seeds reported to be sterile - cult. - latex bitter - ⑥

L.
6964 - Carica papaya - tree - to 14 ft. - Fls. yellowish. ①

crassicaulis (Benth.) Robinson
6965 - Ipomoea - shrub - to 10 ft. - Fls. lavender. cult. ①
"Campanilla morada"

L.
6966 - Dillenia indica - tree - to about 30 ft. - cult. ①
"magnolia mexicana"

arborea L.
6967 - Datura - shrub or tree - to about 12 ft. - Fls. white - cult. ①

6968 - Euphorbia - tree - to about 10-12 ft. - foliage red - cult. ①

arboreus var. penduliflorus (Moc. & Sessé) Schery
6969 - Malvaviscus - shrub - Fls. scarlet - pendulous - cult. "Clavel manzanita" (Fls. at first erect, becoming pendulous with age & size). ①

L.
6970 - Bauhinia purpurea - tree, to about 12 ft. Fls. rose purple - cult. ①
"Pie de venado"

6971- Mammea americana - Tree, to about 65 ft.
Cult. ①
(L.) Pers.
6972- Lagerstroemia speciosa - Tree, to about 40 ft.
Cult. "Jupiter de Java" ①
L. f.
6973- Tectona grandis - Tree, to 60 ft. - Fls.
White - Cult. "Teca" ①
Bl.
6974- Eucalyptus deglupta - Tree, to about 60 ft.
Fls. white - Cult. ①
L.
6975- Olea europea - Bushy tree, to about 18 ft.
Cult. "Olivo" ③
Labill.
6976- Eucalyptus globulus - Tree, to about
20 ft. - Cult. - Juvenile foliage! ①
L.
6977- Melaleuca leucadendron - Tree, to about
30 ft. - Cult. "Alcornoque" ②
Palmeri Rose & Or.
6978- Tabebuia - Tree, to about 45 ft. Fls. dark
Rose purple, with bright yellow throat.
Cult. - "Cortes negro" ⑥
zeylanicum Breyne
6979- Cinnamomum - Tree - to about 25 ft. - Fls.
White - Cult. ②

lucida Hoffm.
6980- Terminalia - Tree - to about 60 ft. - Cult. ②
multijuga Rich.
6981- Cassia - Tree, to about 18 ft. Fls.
Bright yellow - showy - Cult. (multijuga?) ②
Native to W. Indies & S. Amer.
L.
6982- Terminalia catappa - Tree, to about 30 ft.
Cult. "Almendro de playa" ②

caracasana Meisn.
6983 - Coccoloba - Tree, to about 25-30 ft. - Cult. ①
"Papaturro"

6984 - Artocarpus - Tree, to about 60 ft. - Cult. ①

friedrichsthalianum (Berg) Niedenzu
6985 - Psidium - "Arrayan" - Tree, to about 15 ft.
Fruits edible - Cult. Fls. white - attractive - ④

longifolia (Lindl.) Hemsl.
6986 - Kohleria - Plants about 3 ft. tall - Fls. red -
Occasional on roadside banks. ①

L.
6987 - Averrhoa bilimbi - Tree, to about 18 ft. Cult. ①
"Mimbre"

6988 - Annona muricata - Tree, to about 18 ft. Cult. ①

(Thunb.) Lindl.
6989 - Eriobotrya japonica - Loquat - Tree, to about
15 ft. - Fruits yellow - Cult. "Nispero del Japon" [illegible]

L.
6990 - Artocarpus integrifolia - Tree, 20 ft. Cult. ②
"Fruta de Burro" "Pan de Burro"

filicifolia Don & Ck
6991 - Jacaranda - Tree, to about 40 ft. - Cult. ②
"Jacaranda"

robusta Hook.
6992 - Agathis - Tree, 20 ft. Cult. ①

6993 - Eugenia malaccensis - Tree, to about
50 ft. Cult. ②

6994 - PIMENTA ACRIS KOSTER. - TREE, TO ABOUT 65 FT. - GUAVA-LIKE BARK - AROMATIC LEAVES - CULT. ②

CENTRO NACIONAL DE AGRONOMÍA - SANTA TECLA - 3000 FT.
SEPT. 30 - 1958 - WITH CIRO GARCÍA -

6995 - HIBISCUS ROSA-SINENSIS L. - CULT. - FLS. RED - "CLAVELON" ①

6996 - ZIZYPHUS MAURITIANA LAM. - TREE, TO ABOUT 25 FT. CULT. ①
"INDIAN JUJUBE"

6997 - TAXODIUM MUCRONATUM TENORE - TREE - 35 FT. - CULT. ②
"AHUEHUETE" "ARBOL DE LA NOCHE TRISTE"

6998 - ACACIA MELANOXYLON R. BR. - CULT. ①

6999 - ARISTOLOCHIA GRANDIFLORA - CULT. ①

7000 - TABEBUIA DONNELL-SMITHII ROSE CULT. ①

7001 - ALEURITES - TRISPERMA BLANCO CULT. ①

ALTAMIRA - 3000 FT. - OCT. 3, 1958

7002 - LUCUMA - TREE - 18 FT. - FRUITS YELLOW -
"GUAICUME" - CULT. ②

7003 - JUGLANS GUATEMALENSIS MANNING - TREE, TO ABOUT 75 FT. - CULT. ②

7004 - GENIPA CARUTO HBK. - TREE, TO ABOUT 40-50 FT. ②

MAJUKAJA (BALNEARIO DE SAN CRISTOBAL) DEPT. SAN VICENTE -
3000 FT. - OCT. 4, 1958 - COLLECTED BY ROBERT ARMOUR -

7005 - PERESKIA AUTUMNALIS (EICHLAM) BRITT. & ROSE
TREE, 18 FT. - FLS. ORANGE-RED - FRUITS YELLOW. ②

BALBOA PARK - HILLS SOUTH OF SAN SALVADOR - 5000 FT.
OCT. 4, 1958

7006 - LIQUIDAMBAR STYRACIFLUA - TREE, TO ABOUT 75 FT.
L.
CULT. ②

COLONIA SAN BENITO - SAN SALVADOR - 3000 FT. - OCT. 6, 1958

7007 - ALBIZZIA CARBONARIA BRITT.
TREE, TO ABOUT 25 FT. WITH FLAT, SPREADING CROWN
AND GRAY, PROMINENTLY SCALING BARK. FLS. WHITE -
OCCASIONAL ON VACANT LAND - ALSO SEEN NEAR
BRIDGE OVER ROAD WEST OF SANTA TECLA, WHERE IT
IS CALLED "PISQUIN" - ALBIZZIA CARBONARIA ? ⑧

AREA SOUTH OF SANTA ANA, DEPT. SANTA ANA - ROAD TO LOS ANDES - (FINCA PIÑAL)
3000 FT. - OCT. 7, 1958 WITH BOB ARMOUR -

7008 - MANIHOT GLAZIOVII MUELL. - TREE, WITH
DENSE, ROUNDED CROWN - TO ABOUT 50 FT. - "HULE"
NATURALIZED IN HEDGE ROWS -
FLS. GREENISH YELLOW - MARKED PURPLE WITHIN -
OCCASIONAL - ⑤

TETRAGONA IS VERY SIMILAR, BUT HAS STRONGLY 4-ANGLED
STEMS, WITH SHARP, LONGITUDINAL WINGS ON THE CORNERS.

CALLIANDRA PORTORICENSIS (JACQ.) BENTH.
7009 - LARGE SHRUB OR SMALL TREE, TO ABOUT 18 FT. - FLS.
WHITE, SHOWY - OCCASIONAL - ⑧
BUDDLEIA DAVIDII FRANCH.
7010 - LARGE SHRUB - FLS. PURPLE - FRAGRANT - CULT. ①

FINCA LOS ANDES - NORTHERN SLOPES OF VOLCAN SANTA ANA -
DEPT. SANTA ANA - 5500-6500 FT. OCT. 7, 1958 - WITH
ROBERT ARMOUR -

PRUNUS CAPULI CAV.
7011 - "CAPULIN" - CULT. ①
OBLONGA MILLER
7012 - CYDONIA - SHRUB - CULT. ①
7013 - "PEROTE" - HAS FRUIT ABOUT SIZE OF QUINCE
APPLE - PLANT UNARMED. - CULT. ①
CASIMIROA EDULIS LA LLAVE & LEX.
7014 - "MATASANO" - TREE, TO ABOUT 40-50 FT. - CULT. ①

BRACHYCARPA URBAN
7015 - LEUCAENA - TREE, TO ABOUT 18 FT., IN SECOND-GROWTH
CLEARINGS - FLS. PALE PINK, INCONSPICUOUS - FRUITS REDDISH
BROWN, IN SHOWY PENDULOUS CLUSTERS "GUAJE" ⑧
MICRANTHA VAR. STRIGILLOSA (LUNDELL) STANDL. & STEYERM.
7016 - TREMA - TREE, TO ABOUT 20 FT. - FLS. GREENISH -
IN SECOND GROWTH - "CAPULIN NEGRO" ⑧
PACAYENSE FRANCEY
7017 - CESTRUM - LARGE SHRUB OR SMALL TREE, TO ABOUT
30 FT. FLS. YELLOW - FREQUENT IN PRIMARY
FOREST. ⑧

LAURIFOLIUM Mill.
7018 - SOLANUM - SHRUB OR SMALL TREE, TO ABOUT 10-12 FT. FLS. BLUE, RATHER SHOWY "RIEDA PLATO" - COMMON ON CUTOVER LAND, IN SECOND GROWTH. - "VERBASCIFOLIUM"? Ⓕ

PYRUS COMMUNIS L.
7019 - PEAR - "PERA" - CULT. ①

PRUNUS PERSICA (L.) STOKES
7020 - PEACH - "DURAZNO" - CULT. - FLS. PINK. ②

PRUNUS DOMESTICA L.
7021 - PLUM - FLS. WHITE "SATSUMA VAR." ②

AREA SOUTH OF SANTA ANA - DEPT. OF SANTA ANA - ROAD TO LOS ANDES - 3000 FT. OCT. 7, 1958 - WITH ROBERT ARMOUR -

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MEXICANA PRESL
7022 - SAMBUCUS - "SAUCO" - FLS. WHITE - CULT. ②

LATIFOLIA SWARTZ
7023 - ALCHORNEA - BUSHY TREE, TO ABOUT 40 FT. - "TEJEOCHOTE" - REPORTED TO BE PLANTED FOR COFFEE SHADE - OCCASIONAL - ⑤

MACHAERIUM BIOVULATUM MICHELI
7024 - SHRUB OR SMALL TREE, TO ABOUT 20 FT. MACHAERIUM ?- Ⓕ

SANTA TECLA - OCT. 9, 1958

TERNIFOLIA F. MUELL.
7025 - MACADAMIA - CULT. ①

7026 - CATASETUM INTEGERRIMUM - HOOK. ①

CAULIFLORA JACQ.
7027 - CARICA - TO ABOUT 12-15 FT. - IN WET PLACES - ②

National Highway east of Ciudad Arce - Dept. of La Libertad -
Oct. 12, 1958 -

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oleifera Hemsl.
7028- Omphalea - Tree, to about 60 ft. - Locally common - ③

Santa Tecla - Oct. 13, 1958

Nephelium lappaceum L.
7029- Rambutan - cult. ①
chinensis Sonn.
7030- Litchi - cult. ①
ternifolia var. integrifolia
7031- Macadamia - cult. Maiden & Betche ①
Ceratonia siliqua L.
7032- Carob - cult. ①
padifolia HBK.
7033- Ficus - ~~"[illegible] de la [illegible]"~~ (cult.) ①
inermis L.
7034- Lawsonia - Fls. white - Fragrant - cult. ①
inermis Roxb.
7035- Flacourtia - cult. "Lovi-lovi" ①
7036- Tree, 20-25 ft. "Trueno" - cult. ①
Ligustrum lucidum Ait. - Also cult. in Tegucigalpa.

Vcty. San Ignacio - Dept. of Chalatenango - 3000 ft. Oct. 14, 1958 - Pine oak zone -

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Willd.
7037- Luehea speciosa - Tree, to about 25-30 ft. Fls. white - Fragrant - ⑧

L.
7038- Curatella americana - Fls. white - Fragrant - common on cutover land - "Malcajaco" ⑤

mexicana (DC.) Schum.
7039- Belotia - Tree, 40 ft. - Infrequent - ⑧

PHYLLANTHUS ANTILLANUS (JUSS.) MUELL. ARG.
7040 – ~~[illegible]~~ ? – TREE 35 FT. ⑧

MEXICANUS (TURCZ.) SPRAGUE
7041 – HELIOCARPUS – TREE, 30 FT. – OCCASIONAL – ⑧

CAPULI (S. & C.) BERG
7042 – EUGENIA – SHRUB OR SMALL TREE, TO ABOUT 12 FT. – FLS. WHITE – VERY COMMON ABOUT TRAILS – ⑧

ALIBERTIA EDULIS (L. RICH.) A. RICH.
7043 – SHRUB OR SMALL TREE TO ABOUT 15 FT. – FREQUENT – ⑧

(JACQ.) SARG.
7044 – CELTIS IGUANEA – SHRUB OR SMALL TREE, TO ABOUT 20 FT. ⑧

SAPOTAEFOLIA LIEBM.
7045 – QUERCUS – TREE – 35 FT. – FREQUENT – ⑧

SCHIEDE
7046 – PINUS OOCARPA – DOMINANT SPECIES – ①

HOLOSERICEA SAFFORD
7047 – ANNONA – TREE, TO ABOUT 15 FT. – OCCASIONAL – OTHERWISE KNOWN FROM NICARAGUA & HONDURAS. ⑧

AREA NORTH-EAST OF NOMBRE DE JESUS – DEPT. OF CHALATENANGO – ELEV. ABOUT 1000 FT. – OCT. 17, 1958 – WITH MARIO LEWY VAN SEVEREN & ROBERT ARMOUR –

NICARAGUENSIS BENTH.
7048 – CASSIA – SHRUB OR SMALL TREE, TO ABOUT 15 FT. FLS. BRIGHT yellow, SHOWY – COMMON – ⑧

MULTIFOLIOLATUM B. & R.
~~[illegible]~~
7049 – LYSILOMA – TREE, TO ABOUT 60 FT. – WITH VERY SHAGGY BARK – FRUITS A FLAT REDDISH POD, ABOUT 6" LONG AND 1-1¼" WIDE – DOMINANT OVER WIDE AREAS – ⑤

7050 – INDIGOFERA SUFFRUTICOSA Miller – WOODY HERB, TO ABOUT 9 FT. – "JIQUELITE" – EXPLOITED FOR INDIGO. SEE PHOTOS. ⑧

CYCLOCARPA RADLK.
7051 – WIMMERIA ? – TREE – 30 FT. – FRUITS WHITE, TURNING PINK – ATTRACTIVE – "CAMARONCILLO" SHOWY FROM A DISTANCE. – ⑧

LA LIBERTAD - DEPT. OF LA LIBERTAD - SEA LEVEL · OCT. 22, 1958

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costaricana (Liebm.) Miq.

7052 - Ficus - STRANGLER FIG WITH MULTIPLE TRUNKS - ABOUT 65 FT. IN HEIGHT - IN YARD OF SR. GONZALEZ - ⑧

SANTA TECLA - 3000 FT - DEPT. LA LIBERTAD - OCT. 24, 1958

7053 - Ficus padifolia HBK. - EPIPHYTIC TREE, GROWING ON ARAUCARIA. RARE. ⑧

FINCA ALTAMIRA - HILLS SOUTH OF SAN SALVADOR - 2500 FT.
OCT. 26, 1958 -

-ok.

7054 - Ficus - ~~Keys to~~ elastica ROXB. - TO ABOUT 95 FT. IN HEIGHT & 4 FT. IN TRUNK DIAM. - TRUNK SOLITARY - LEAVES ON UPPER BRANCHES VERY MUCH REDUCED IN SIZE - FRUITS yellow, cylindrical, BECOMING (APPARENTLY) purple AT MATURITY - PROBABLY PLANTED - ⑧

VCTY. SANTA TECLA - 3000 FT. - WITH MARIO LEWY VAN SEVEREN
OCT. 27, 1958

70[illegible] [illegible]us SCRIPTUS (SCHEIDW.) REICHB. F. - FLS. YELLOWISH [illegible] LOCALLY FREQUENT ON CONIFERS - ①

(L.) Jack
7056 - *Murraya paniculata* - shrub, 10 ft. - fls. white - intensely fragrant - *Photo* ①

Standl.
7057 - *Calophyllum brasiliense* var. *rekoi* - fls. white - (appear tan, in mass, & from a distance) Photo - ②

Hacienda "La Cabaña", Dept. San Salvador - area north of Guazapa - 900 ft. - Oct. 31, 1958 - with Robert Armour.

Robinioides Benth.
7058 - *Diphysa* - tree, to about 50 ft. - fls. bright yellow. occasional - ⑧

Koenig
7059 - *Blighia sapida* - fls. greenish white, with strong spicy fragrance - Cult. ③

7060 - *Psidium* - tree - 10-12 ft. - fls. white - "Arrayan" ⑤
Cult.

L.
7061 - *Punica granatum* - shrub - *fls. white* - Cult. ②

L.
7062 - *Annona muricata* - fls. pale yellow - Cult. - ②

HBK.
7063 - *Lecythis elliptica* - shrub or small tree, to about 12 ft. - fls. white - Cult. ③

L.
7064 - *Punica granatum* - fls. bright red - Cult. ⑤

7065- Anacardium occidentale L. - Fls. reddish - fragrant - cult. ②

7066- Malpighia glabra L. - shrub - cult. ①

7067- Crescentia alata HBK. - majority of foliage (98%) not winged - fruits slightly larger than normal, but globose - in native dooryard - ①

7068- Dalbergia - ? - tree, 12 ft. - fls. dark purple, in dense pendulous racemes - on steep river bank - rare - ⑯

Vcty. Santa Tecla - Dept. of La Libertad - 3000 ft. - Nov. 6, 1958

7069- Perymenium grande Hemsl.
tree, to about 60 ft - flowers bright yellow - very showy - "Tatascame" - bark corky, with distinctive vertical corrugations - occasional, sometimes forming small conspicuous "manchas" on the hillsides. Leaves rough to the touch. ⑧

HIGHWAY TO CERRO VERDE - AREA SOUTH OF LAKE COATEPEQUE - 3500 FT - DEPT. OF SONSONATE - NOV. 6, 1958

TITHONIA ROTUNDIFOLIA (MILL.) BLAKE
7070- WOODY HERB, TO ABOUT 10 FT., SOMETIMES BECOMING MORE OR LESS SHRUBBY OR ARBORESCENT - FLS. BRIGHT YELLOW, VERY SHOWY. EXTREMELY COMMON, FORMING ALMOST PURE STANDS ALONG HIGHWAY. (8)

PERYMENIUM GRANDE HEMSL. ~~VAR. STRIGILLOSUM ROB. & GREENM.~~
7071- TREE, TO ABOUT 65 FT. - FLOWERS BRIGHT YELLOW, VERY SHOWY - BARK WITH CHARACTERISTIC VERTICAL & OFTEN UNDULATE CORRUGATIONS - COMMON IN SECOND-GROWTH FOREST ON LOWER SLOPES OF SANTA ANA VOLCANO AND CONSPICUOUS FOR MANY MILES AT THIS SEASON - (6)

EHRETIA LUXIANA DONN. SM.
7072- TREE, TO ABOUT 75 FT. IN HEIGHT & 4 FT. IN TRUNK DIAMETER - FLOWERS WHITE - "BARENO" - WOOD SAID TO BE USED FOR FURNITURE - ONLY ONE SPECIMEN SEEN - "BARRENO". (10)

7073- CORNUTIA PYRAMIDATA L. - TREE, 12 FT. - FLS. DEEP VIOLET - INFREQUENT - (5)

ACACIA ANGUSTISSIMA (MILL.) KUNTZE
7074- TREE, TO ABOUT 35 FT., SOMETIMES FLOWERING WHEN ONLY A SHRUB - FLOWERS WHITE, SHOWY - FRUITS BROWN - OCCASIONAL - (16)

Upper slopes of Cerro Verde - Dept. of Sonsonate - 5500-
6000 ft. - Nov. 6, 1958

CAPULI (SCHLECHT. & CHAM.) BERG
7075- EUGENIA - TREE, TO ABOUT 40 FT. - FRUITS BLACK - ⑧

7076 - ROUPALA BOREALIS HEMSL. - TREE, TO ABOUT 45 FT.
FLS. WHITE - COMMON. FLS. FRAGRANT - BARK ⑧
HAS A DISAGREEABLE ODOR -

KUNTHII CHOISY VAR. EU-KUNTHII BRAND
7077- WIGANDIA - HERB, SHRUB OR TREE, TO ABOUT 10-12 FT. -
MAIN AXIS OF INFLORESCENCE WITH STINGING HAIRS,
BUT LEAVES NOT ARMED - FLOWERS DEEP VIOLET -
VERY COMMON - ②

BIFLORA L.
7078 - CASSIA - TREE, TO ABOUT 20-25 FT. - FLS. yellow -
COMMON - ⑧

FLEXUOSUM (HBK) HEMSL.
7079 - XYLOSMA - TREE, 18 FT. - FRUITS RED - TRUNK ARMED
WITH BRANCHED SPINES - ⑧

PACAYENSE FRANCEY
7080 - CESTRUM - TREE - 20 FT. - Fls. pale yellow - ⑧

7081 - ODONTOGLOSSUM BICTONIENSE (BATEM.) LINDL. - ①
Sepals & petals pale yellow, richly marked
with glossy reddish brown - lip white, faintly
flushed with pink -

SANTA TECLA - NOV. 14, 1958 - IN CULTIVATION - PLANTS FROM

7082 - Pleurothallis ghiesbreghtiana A. Rich. & Gal. - Fls. translucent yellow - fragrant - see photo ⑦
Cult. - plants from near San Ignacio, Chalatenango - 3500 ft.

PLANTS OF HONDURAS - FLOWERED IN CULTIVATION - NOV. 17, 1958

atropurpureum ? Lindl.
7083 - Mormodes - collected near Lake Yojoa - 3000 ft. Sepals & petals greenish brown, with darker longitudinal stripes - lip a deep, rich yellow, apicule of terminal lobe a very dark reddish brown - column greenish brown - strong aromatic odor - see photo -

PLANTS OF EL SALVADOR

VCTY. OF LOS AGUILARES - DEPT. OF SAN SALVADOR - ELEV. ABOUT 1200 FT. NOV. 17, 1958 - with Mario Lewy van Severen.

Lindl.
7084 - Laelia rubescens - very common on Crescentia alata - see notes - & photo. ⑥

Region north-east of Chalatenango, near Comalapa, Dept. of Chalatenango - 1500 ft. - Nov. 16, 1958 - with Mario Lacuey van Severen -

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7085 - Calycophyllum candidissimum (Vahl) DC. - Tree - to about 65 ft. - Frs. & bracts white - frequent - see photo. - ⑧

7086 - Diphysa robinioides Benth. - occasional - fruits. ③

Psidium molinae (Standl. & L. Wms.) Amsh.
7087 - ~~Eugenia~~ ? - Tree, to about 60 ft. - bark guava-like, mottled & scaling in irregular patches - fruits green, becoming yellow at maturity - occasional - ⑧

7088 - Epidendrum stamfordianum Batem. - form with long scapes, & large flowers. Lateral lobes of lip uniformly white - ③

7089 - Bulbophyllum pachyrhachis (A. Rich.) Griseb. ①

illaris (Sw.) Willd.
7090 - Shrub or small tree, to about 10 ft. Fruits red, becoming black at maturity. Bark not guava-like - possibly same as # 7087 - ④

terniflora (Moc. & Sessé) Standl.
7091 - Sloanea - Tree, 75 ft. - Fls. dark purple - infrequent - ⑧

Dalbergia glabra (Mill.) Standl.
7092 - ~~Machaerium~~? - Scandent shrub - lower trunk with long, woody spike-like spines - ⑧

Griseb.
7093 - Sciadodendron excelsum - Tree - 60 ft. - Bark brittle, thick, with conspicuous longitudinal corrugations - ⑥

San Salvador - 2500 ft. Nov. 17, 1958

7094 - Ficus ~~benjamina~~ retusa L. - cult. ②

Santa Tecla - 3000 ft. - Nov. 17, 1958 - with Ciro Garcia

7095 - Tridax procumbens L. "Hierba del toro" - Fls. pale yellow - leaves reported to be used as a toothache remedy - common weed - ②

7096 - Spilanthes ocymifolia (Lam.) Moore - "Hierba de la Rabia" - Entire plant has coca-like effect when chewed, but is of relatively brief duration - used as a toothache remedy. ②

Area between San Ignacio and Citalá, Dept. of Chalatenango. Elev. 1500–3000 ft. Nov. 19, 1958

L.
7097 – Liquidambar styraciflua – Fruits only – ①

HBK.
7098 – Bombax ellipticum – Fls. white – ③

~~Fruticosa Mill.~~ Bacillaris L. F. (Fl. Guat.)
7099 – Cassia – Shrub or small tree, to about 15 ft.
Fls. yellow – occasional. (This species is ⑧
reduced by Schery in the Flora of Panama to Cassia
fruticosa Mill.
Lotsy

7100 – Euphorbia leucocephala – Shrub or small tree, to
about 10–12 ft. – Showy – Rocky hillsides – ⑧
Fls. & bracts white –

Gmel.
7101 – Schoepfia schreberi – Tree, to about 15–20 ft.
Sterile – ②

L.
7102 – Annona reticulata – Tree, 15 ft. – Cult. ②

Sublobatum Robinson
7103 – Liabum – Tree, 45 ft. – Sterile – ⑧

7104 – Saurauia – Tree, 20 ft. – Fls. white – occasional – ⑧

7105 – Small tree – 10 ft. – Fls. white – Fruits black,
in conspicuous pendulous clusters – ⑧

AREA BETWEEN OPICO AND TACACHICO - DEPT. OF LA LIBERTAD - 1500 FT. - NOV. 26, 1958 - WITH ROBERT ARMOUR & MR. MORTENSON -

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7106 - NOPALEA DEJECTA SALM-DYCK - USED FOR HEDGES - FLOWERS RED. ④

7107 - REHDERA TRINERVIS (BLAKE) MOLDENKE TREE, 20 FT. - FRUITS BLACK - "JICARILLO" - WOOD ~~DESCRIBED~~ REPORTED AS BEING USED FOR HOUSE VIGAS - OCCASIONAL - ⑧

7108 - GODMANIA AESCULIFOLIA (HBK.) STANDL. - TREE - 18 FT. - "CACHO DE CHIVO" OCCASIONAL - PENDULOUS FRUITS CONSPICUOUS. ⑧

VCTY. CIUDAD ARCE - DEPT. OF LA LIBERTAD - ELEVACIÓN ABOUT 2500 FT. DEC. 12, 1958 - WITH ROBERT ARMOUR.

7109 - IPOMOEA ARBORESCENS (H&B.) G. DON - TREE, TO ABOUT 30 FT. - FLOWERS WHITE, SHOWY. ⑧

NORTHERN SLOPES OF SANTA ANA VOLCANO - FINCA LOS ANDES - 5500 FT. - DEC. 12, 1958 - WITH ROBERT ARMOUR.

7110 - TURPINIA PANICULATA VENT. - TREE, 25 FT. - FRUITS PINKISH TAN - PROBABLY INSECT GALLS RATHER THAN NORMAL FRUITS - ⑧

Santa Tecla - Centro Nacional de Agronomia - Dec. 14, 1958.

7111 - *Thea sinensis* L. - Tea - Cultivated - flowers white, with yellow stamens. (4)

Vcty. Texistepeque - Dept. of Santa Ana - Elev. about 1500 ft. Dec. 28, 1958

7112 - Albizzia ~~Acacia~~ *caribaea* (Urban) Britt. & Rose - Tree, to about 80 ft. in height & 5 ft. in trunk diameter. Bark pale, with roughly circular patches which scale off, leaving characteristic depressions - locally common. "Conacaste blanco". (8)

Vcty. Lake Guija - Dept. of Santa Ana - 1500 ft. Dec. 28, 1958

7113 - *Leucopremna mexicana* (A.DC.) Standl. - Tree, to about 50 ft. Lower trunk swollen, to about 4 ft. in diam. Crown of tree characteristically narrow. Occasional, mostly in door yards or fence rows. (8)

CERRO MONTE CRISTO - DEPT. OF SANTA ANA - 6500 FT.
JAN. 2, 1959 - WITH MARIO LAMY VON SENGHEN -

GUATEMALENSIS D. SM.
7114 - CASSIA - SHRUB OR SMALL TREE, TO ABOUT 20 FT. FLS. YELLOW - VERY COMMON ON CUTOVER LAND AND ALONG ROADSIDES. ⑧

MICONIA GLABERRIMA (SCHLECHT.) NAUD.
7115 - MELASTOMACEAE - SMALL TREE, TO ABOUT 12-15 FT. - FLS. WHITE, AGEING PINKISH. FREQUENT IN FOREST. ⑧

MATUDAI LUNDELL
7116 - PODOCARPUS - TREE, TO ABOUT 65 FT. - OCCASIONAL IN FOREST. ⑧

DISCIFLORA DC.
7117 - CORNUS ? - TREE, TO ABOUT 65 FT. IN HEIGHT & 5 FT. IN TRUNK DIAMETER - FLOWERS WHITE - FAIRLY FREQUENT IN FOREST. ⑧

SENECIO SANTAE ROSAE GREENM.
7118 - ~~ARALIACEAE~~ - SHRUB OR SMALL TREE, TO ABOUT 12 FT. FLS. WHITE ? COMMON - ⑧

VICENTINA STANDL.
7119 - CLETHRA - TREE, TO ABOUT 90 FT. IN HEIGHT AND 6 FT. IN TRUNK DIAMETER, THOUGH OFTEN FLOWERING WHEN MUCH SMALLER - FLOWERS WHITE, FRAGRANT. COMMON ON CUTOVER LAND AND IN PRIMARY FOREST, WHERE IT IS APPARENTLY ONE OF THE LARGEST TREES. ⑧

villosa DC.
7/20 – Saurauia – Tree, to about 20 ft. – Fls. white – Frequent, especially on cutover land. (5)

ferruginea (R. & P.) Mez
7/21 – Rapanea – Tree, to about 18 ft. – Very common on cutover land. (4)

Rhamnus capreaefolia Schlecht.
7/22 – Rhamnaceae – Tree, to about 50 ft. Fruits red – occasional. (3)

Bunchosia lanceolata Turcz.
7/23 – Malpighiaceae – Tree, to about 25 ft. Fruits scarlet, showy – occasional in forest. (8)

Senecio santaerosae Greenm.
7/24 – Composit – Shrub or small tree, to about 12 ft. Flowers yellow – common on cutover land. (5)

Cobaea lutea Don
7/25 – ~~Cobaea~~ – Vine – outer corolla purple – inner corolla pale green – calyx green – (2)

oreopila Hemsl.
7/26 – Saurauia – leaves reddish – flowers white – tree, to about 20 ft. – occasional – (8)

aculeata L.
7/27 – Randia – Small tree, to about 12 ft. – Flowers & fruits white – common in climax forest. (6)

7128 - MAGNOLIA GUATEMALENSIS DONN. SMITH - TREE, TO ABOUT 65 FT. - FLOWERS WHITE - FAIRLY FREQUENT IN PRIMARY FOREST. ⑧

7129 - OLMEDIELLA BETSCHLERIANA (GOEPP.) LOES. - TREE, TO ABOUT 90 FT. IN PRIMARY FOREST - ⑥

7130 - HEDYOSMUM MEXICANUM CORDEMOY - TREE, TO ABOUT 30 FT. COMMON - ④

7131 - RONDELETIA RUFESCENS ROBINSON - TREE, TO ABOUT 15 FT. - FLOWERS RED - LOCALLY COMMON IN PRIMARY FOREST. ⑧

7132 - PRUNUS SALASII STANDL.
TREE, 75 FT. IN HEIGHT & 5 FT. IN TRUNK DIAMETER - FRUITS GREEN - IN PRIMARY FOREST. ⑤

7133 - RUBIACEAE - TREE - 18 FT. - FLOWERS PALE YELLOW. ⑧

7134 - BEFARIA GUATEMALENSIS CAMP
TREE, TO ABOUT 18 FT. - FLOWERS WHITE - VERY FRAGRANT - ⑤

7135 - OREOPANAX PELTATUS LINDEN - TREE, TO ABOUT 15 FT. ⑤

VCTY. SANTA BARBARA, DEPT. OF CHALATENANGO, 1000 FT.
FLD. AT CLUB DEPORTIVO NOV. 8, 1958

7136 - EPIDENDRUM STAMFORDIANUM BATEM. - COLLECTED BY OSKAR PANK - SEE PHOTO & DESCRIPTION SENT TO AM. ORCH. SOC. ①

SANTA ANA, DEPT. OF SANTA ANA, 1900 FT., JAN. 2, 1959, WITH MARIO LEWY VAN SEVEREN.

EDULIS DC.

7137 - PARMENTIERA - TREE, 18-20 FT. - FLOWERS PALE GREEN, FRUITS YELLOW, WAXY, REPORTED EDIBLE - CULTIVATED - SEE PHOTO - ④

VOLCAN SAN VICENTE, DEPT. OF SAN VICENTE - 5000 FT.
FLD. CLUB DEPORTIVO JAN. 6, 1959. - CLEON CLASSON

7138 - BOTHRIOCHILUS MACROSTACHYUS (LINDL.) L. WMS. FLOWERS PINK - OUTER SURFACE OF SEPALS CRYSTALINE & COARSELY PAPPILOSE - INFLORESCENCE SUPERFICIALLY LATERAL, BUT ACTUALLY TERMINAL ON THE NEW GROWTH. SEE PHOTO. ①

OSKAR BANK - JAN. 10, 1959 - FLOWERED IN CULTIVATION -

7139 - *ONCIDIUM LONGIFOLIUM* LINDL. (O. CEBOLLETA OF AUTHORS, NOT (JACQ.) SW., WHICH L. WMS. CONSIDERS A *NOMEN DUBIUM*. PLANTS VERY VARIABLE, IN REGARD TO LEAF LENGTH AND THICKNESS, SOME ISOLATED EXAMPLES REACHING AN INCH OR MORE IN DIAMETER (PROBABLY DUE TO EXCEPTIONALLY FAVORABLE GROWING CONDITIONS) AND TYPIFIED BY STRONGLY DEVELOPED PANICULATE INFLORESCENCES. (SEE PHOTOS) WHILE THE MAJORITY HAVE NARROWLY TERETE LEAVES ABOUT ½" IN DIAMETER AND RACEMOSE OR VERY NARROWLY PANICULATE INFLORESCENCES, WITH SHORT LATERAL SPIKES. COLUMN WINGS MUCH REDUCED AND MORE OR LESS LUNATE OR DOLABRIFORM IN SHAPE (OFTEN SLIGHTLY 2-LOBED) AND BROADLY SPREADING. LATERAL LOBES OF LIP OBLANCEOLATE TO OBOVATE, ALSO BROADLY SPREADING. CALLUS NOT EXTENDING BEYOND ISTHMUS OF LIP. S. & P. PALE GREENISH YELLOW, HEAVILY SPOTTED REDDISH BROWN. LIP BRIGHT YELLOW - CENTRAL CALLUS & RECURVED MARGINS OF LATERAL LOBES JUST ABOVE ISTHMUS MARKED REDDISH BROWN - REVERSE SURFACE OF LIP PALER YELLOW, FREQUENTLY WITH IRREGULARLY DISTRIBUTED RED DOTS, PARTICULARLY NEAR THE BASE. SEE PHOTOS. ②

Mario Lara y van Severen - Pla. in cultivation
Jan. 10, 1959 - Lake Guija - 1200 ft.

7140 - Oncidium ascendens Lindl. - Column wings narrowly linear, falcately porrect in natural position - lateral lobes of lip narrowly linear to narrowly oblanceolate, parallel & strongly porrect in natural position. Basal callus of lip extending onto isthmus. S & P: pale yellow, blotched reddish brown. Lip bright yellow - basal callus marked with reddish brown - See photos. ①

~~boss or~~ spur.
~~[illegible] with a strongly papillose fleshy [illegible] callus [illegible] surface near the base.~~

Tomas Vilanova - Jan. 11, 1959

7141 - Crataeva tapia L. ③

Centro Nacional de Agronomia - Santa Tecla - Jan. 11, 1959

7142 - Oncidium ascendens Lindl. (?)
Much like O. ascendens, excepting for the dwarf habit, larger flowers - more richly colored S & P. & in the unique fleshy boss or spur on the dorsal surface of the lateral lobes of the lip, near the base. Lateral lobes broad & partially porrect, most intermediate in habit between 7139 & 7140. ①

Cerro Monte Cristo - Dept. of Santa Ana - Cloud forest area, dominated by gigantic specimens of Quercus skinneri & Quercus corrugata - 6000 - 6500 ft. Jan. 17, 1959.

Brunellia mexicana Standl.
7143 - Juglandaceae? - Tall, slender tree, to about 65 ft.
Older leaves often blood red, showy. Bark removed
in sheets for use as roofing. "Aceituno"?
Very common - (3)

orchidioides (Sw.) A. Rich.
7144 - Spiranthes - terrestrial & epiphytic - Rachis,
fls. & fruits rose red - showy. (2)

Persea popenoei L. Wms.
7145 - Lauraceae - Tree, to about 25 ft. - Occasional
in primary forest. (8)

Rapanea guianensis Aubl.
7146 - Tree, to about 40 ft. - Flower buds pink -
very common - (8)

Liabum discolor (H. & A.) B & H.
7147 - Woody liana - Liabum - Flowers yellow, very
fragrant - common - (8)

Senecio santarosae Greenm.
7148 - Composit - tree, to about 18 ft. - Fls. yellow -
common - (8)

Eupatorium daleoides (DC.) Hemsl.
7149 - Composit - tree, to about 30 ft. - Fls. white
Locally common. (8)

- Campanulaceae

Centropogon grandidentatus (Schlecht.) Zahlbr.
7150 - Lobeliaceae - Herb or shrub, to about 8 ft.
Flowers rose red - very common. (5)

Ardisia vatteri Standl. & Steyerm.
7151 - Tree, to about 12 ft. - Fruits dark purple - (8)

Verbesina vicina Blake
7152 - Composit - Shrub or tree, to about 20 ft. - Fls. yellow - (8)

Vaccinium poasanum Donn. Sm.
7153 - Ericaceae - Epiphytic shrub - frequent - (8)
Sometimes a bushy tree, to 30 ft.

splendens Zucc.
7154 - Fuchsia - Herb or shrub, to about 4-5 ft.
Corolla dark pink - lobes green. (8)

laticuspis (Turcz.) Engler
7155 - Phyllonoma - Tree, to about 20 ft. - Fruits
white - occasional. (5)

Monnina xalapensis HBK.
7156 - Shrub, to about 9 ft. - Flowers blue - Fruits dark
violet. (8)

Myrica cerifera L.
7157 - Tree, to about 40 ft. - Very common. (8)

Gaultheria odorata Willd.
7158 - Ericaceae - Shrub, 6 ft. - Fls. white. (4)

Vaccinium hondurense A.C. Smith
7159 - Ericaceae - Shrub - 5 ft. (to 12 ft.) - Fls. dark pink. (2)

Zanthoxylum harmsianum (Loes.) P. Wilson ~~[illegible]~~ !!
7160 - Thorny vine - Flowers white to pinkish - Fruits
pink - frequent. (16)

CLOUD FOREST - NEAR SUMMIT OF CERRO MONTE CRISTO -
7000 - 7500 FT. - DEPT. SANTA ANA - JAN. 18, 1959.

LIPARIS FANTASTICA (A & S.) VAR. CORDIFORMIS (SCHWEINF.) L. WMS.
7161 - MALAXIS - TERRESTRIAL - COMMON IN ELFIN
FOREST AT SUMMIT. ③

GEONOMAEFORMIS WENDL.
7162 - CHAMAEDOREA - TO ABOUT 8 FT. - RACHIS ORANGE
OCCASIONAL IN DENSE FOREST. ③

OLEIFOLIUS D. DON
7163 - PODOCARPUS - TREE, TO ABOUT 75 FT. - VERY
COMMON IN PRIMARY FOREST. ⑥

MEXICANUM CORDEMOY
7164 - HEDYOSMUM - TREE, TO ABOUT 40 FT. - SOMETIMES
WITH PROP ROOTS - VERY COMMON - ⑧

7165 - ERICACEAE - EPIPHYTIC SHRUB - FRUITS PINK. - ①

CLEYERA SKUTCHII KOBUSKI
7166 - THEACEAE? - SHRUB OR TREE, TO ABOUT 40 FT.
FLS. WHITE. IN ELFIN FOREST AT SUMMIT. ⑧

ILEX JOHNSTONII MERR.
7167 - SHRUB OR TREE, 8-10 FT. - IN ELFIN FOREST AT
SUMMIT. ⑧

PITTIERI HACK. (MCCLURE)
~~SUBTESSELLATA~~ HITCHC. (?)
7168 - CHUSQUEA? - 6 FT. - IN ELFIN FOREST AT SUMMIT -
COMMON - STERILE! ③

CRANICHIS SYLVATICA A. RICH. & GAL.
7169 - MALAXIS? - FLS. WHITE - TERRESTRIAL. ②

CRANICHIS SYLVATICA?

VENOSA MAST.
7170 - ARDISIA - TREE, TO ABOUT 35 FT. - FRUITS
DARK PURPLE - COMMON IN DENSE FOREST. ⑧

MELIOSMA DENTATA (LIEBM.) URBAN
7171 - TREE, TO ABOUT 80 FT. - FRUITS FLESHY, PYRIFORM,
TRANSLUCENT GREENISH YELLOW - COMMON
IN DENSE FOREST. ⑧

SOLANUM CERVANTESII LAG.
7172 - SOLANACEAE - TREE, TO ABOUT 15 FT - FLS. PALE
BLUE - BUDS STRIPED DARK BLUE ON OUTER SURFACE.
FRUITS BLACK AT MATURITY - VERY COMMON ON
CUTOVER LAND. ⑫

NECTANDRA GLOBOSA (AUBL.) MEZ
7173 - LAURACEAE - TREE, TO ABOUT 75 FT. - FLS.
WHITISH - COMMON IN PRIMARY FOREST. ⑧

DEPPEA GRANDIFLORA SCHL.
7174 - SHRUB OR SMALL TREE, TO ABOUT 10 FT. - FLS.
BRIGHT YELLOW, SHOWY. VERY COMMON ON
CUTOVER LAND. ⑧

PHOEBE ACUMINATISSIMA LUNDELL
7175 - LAURACEAE - TREE, TO ABOUT 75 FT. - FLS.
WHITISH - FLUSHES OF NEW LEAVES PINKISH
LAVENDER, CONSPICUOUS - COMMON IN PRIMARY
FOREST. ⑥

CORDATUM LINDL.
7176 - ODONTOGLOSSUM - OCCASIONAL IN TOPS OF
LARGE TREES - ①

CHIAPENSIS BRANDEG.
7177 - CAVENDISHIA - EPIPHYTIC SHRUB - BRACTS RED - SHOWY - FLOWERS PINK - COMMON - ④

ZANTHOXYLUM MELANOSTICTUM SCHLECHT. & CHAM.
7178 - TREE, TO ABOUT 80 FT. (OCCASIONALLY MUCH LESS ON MARGINS OF ELFIN FOREST) - FRUITS REDDISH - SHOWY - FOLIAGE AROMATIC - COMMON IN PRIMARY FOREST, DOWN TO ABOUT 6000 FT. - ⑧

GRANADENSIS VAR. MEXICANA (DC.) A.C. SMITH
7179 - DRIMYS - TREE, TO ABOUT 50 FT. - FRUITS BLACK - UNDERSIDES OF LEAVES WHITISH - VERY COMMON IN PRIMARY FOREST. ⑧

SIMS
7180 - FUCHSIA ARBORESCENS - SHRUB OR TREE, TO ABOUT 20 FT. - FLS. PURPLE - VERY COMMON - ③

Cerro Monte Cristo - Dept. de Santa Ana - 4500-6000 ft.
Jan. 18, 1959 -

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chittendenii Standl.
7181 - Abutilon - Slender tree, to about 18 ft. - Fls. bright orange, showy - forms thickets on steep slopes, on cutover land. (8)

Bombax ellipticum HBK.
7182 - ~~Pachira~~ - Tree, 25 ft. - Fls. dark wine red - (8)

xalapensis HBK.
7183 - Arbutus - Tree, 20 ft. - Trunk 10" diam. Bark tan, smooth, lower trunk with scaly bark. Fls. white, fragrant - older leaves bright red. On steep slopes, in pine-oak zone. (8)

conterminus D. Sm.
7184 - Styrax? - Tree, to about 40 ft. - Fls. white - Note lepidote scales on lower leaf surface! (8)

floribunda Peyritsch
7185 - Diphysa - Tree, to about 60 ft. - Fls. bright yellow - showy - (16)

oocarpa var. manzanoi Martinez
7186 - Pinus - Tree, to about 80 ft. - Common - (6)
Keys out to ~~[illegible] Schlecht. & Cham.~~ in Trees & Shrubs of Mexico. - See Martinez p. 303

VCTY. SANTA TECLA - 3000 FT.. JAN. 24, 1959

CAPIRI (A. DC.) PITTIER
7187 - SIDEROXYLON - FLS. CREAM - TREE, TO ABOUT 75 FT.
OCCASIONAL. SEE PHOTO - ⑤

SAN SALVADOR - 2200 FT.. JAN. 24, 1959

BRASILIENSE VAR. REKOI STANDL.
7188 - CALOPHYLLUM - STREET TREE - COMMON -
SEE PHOTO - ⑧

FINCA ALTAMIRA - HILLS SOUTH OF SAN SALVADOR - ~~3000~~ 2800 FT.
JAN. 26, 1959 -

OFFICINALIS LINDL.
7189 - PIMENTA - TREE, TO ABOUT 60 FT. - FLS. WHITE -
CULTIVATED - BARK GUAVA-LIKE - - ③

INERMIS (WRIGHT) URBAN
7190 - ANDIRA - TREE, TO ABOUT 45 FT. - FLS. LAVENDER -
SEE PHOTO - CULT. ⑧

SEPIUM (JACQ.) STEUD.
7191 - GLIRICIDIA - TREE, TO ABOUT 30 FT. - FLS. PINK -
SEE PHOTO - ⑧

ROSE
7192 - TABEBUIA DONNELL-SMITHII - FLS. BRIGHT YELLOW. -
TREE, TO ABOUT 75 FT. - CULT. - SEE PHOTO - ⑧

EL
SAN SALVADOR VOLCANO & PICACHO - 4500-6000 FT.
JAN. 27, 1959 - WITH MARIO LAWY.

GUATEMALENSIS KRUKOFF
7193 - ERYTHRINA - TREE, TO ABOUT 60 FT. - FLS. RED - LIMITED TO SUMMIT - KEYS OUT TO E. GUATEMALENSIS - SEE PHOTO - "AHUIVOTE" - ⑧

TRICHODONTA TREL.
7194 - QUERCUS - TREE, TO ABOUT 80 FT. - NARROW, ASCENDING CROWN - DOMINANT SPECIES. ②

RONDELETIA STRIGOSA (BENTH.) HEMSL.
7195 - HERB - 5 FT. - FLS. BLOOD RED. ③

BUDDLEIA ASTRALIS STANDL. & STEYERM.
7196 - ~~VERBENACEAE~~? - TREE, TO ABOUT 25 FT. - BRANCHES SQUARE - FLS. YELLOW - NOT COMMON. ALSO IN GUATEMALA WHERE IT HAS NARROWER LEAVES & MAY REACH 40 FT. IN HEIGHT. ③

URBAN
7197 - ERYTHRINA BERTEROANA - TREE, TO ABOUT 45 FT. FLS. RED. COMMON AT LOWER LEVELS. ①

WALLICHII (LINDL.) BENTH. & HOOK.
7198 - DOMBEYA - TREE, 18 FT. - CULT. ④

COASTAL HIGHWAY WEST OF LA LIBERTAD - SEA LEVEL - DEPT. OF LA LIBERTAD - JAN. 28, 1959.

ERIOSTACHYS BENTH.
7199 - CAESALPINIA - TREE, TO ABOUT 50 FT. - FLS. BRIGHT YELLOW, SHOWY. COMMON ON DRY HILLSIDES. SEE PHOTO. ⑦

CONZATTII (ROSE) STANDL.
7200 - CAESALPINIA - TREE, TO ABOUT 25 FT. CALYX & PETALS RED - COROLLA YELLOW - SHOWY - COMMON ON DRY HILLSIDES. BARK GREEN, WITH MANY CONSPICUOUS WHITE LENTICELS. SEE PHOTO. ⑭

INTEGERRIMA (SPRENG.) STANDL.
7201 - BRAVAISIA - TREE, TO ABOUT 35 FT. - FLS. WHITE, WITH BROWN CENTERS. STILT ROOTS - COMMON IN WET PLACES. ⑧

BALANOIDEA (OERST.) WENDL.
7202 - BACTRIS - COMMON - PLANTS ABOUT 8 FT. TALL. ①

(L.) GAERTN.
7203 - CEIBA PENTANDRA - TREE, TO 80 FT. - COMMON - SEE PHOTO - ⑤

GERASCANTHUS L.
7204 - CORDIA - TREE, TO ABOUT 25 FT. - FLS. WHITE, AGEING BROWN - COROLLA PERSISTENT IN FRUIT, AS A GYRATOR FOR THE WIND DISPERSAL OF THE SEEDS - COMMON. - SEE PHOTO - ⑩

HOFFM.
7205- TERMINALIA LUCIDA - TREE, TO ABOUT 50 FT. - BARK
PALE, SMOOTH, GUAVA-LIKE - IN LOW, WET
PLACES. SEE PHOTO - ⑧

7206- SWIETENIA HUMILIS ZUCC. - TREE, TO ABOUT 50 FT.
SEE PHOTO - ②

SPONDIAS PURPUREA L.
7207- TREE, TO ABOUT 50 FT. - FLS. & RACHIS DARK RED. - ①

(ROXB.) BENTH.
7208- PITHECOLOBIUM DULCE - TREE, TO ABOUT 25 FT. - FRUITS
RED - SEEDS WITH WHITE ARIL - SEE PHOTO - ④

(BERTOL.) STANDL. & STEYERM.
7209- TRIPLARIS MELAENODENDRON - TREE, TO ABOUT 50 FT. -
FRUITS WHITE TO DARK PINK - COMMON - SEE PHOTO - ⑥

(RUIZ & PAVON) CHAM.
7210- CORDIA ALLIODORA - TREE, TO ABOUT 50 FT. - FLS.
WHITE, INTENSELY FRAGRANT - SEE PHOTO - ③

(L.) HEMSL.
7211- TABEBUIA PENTAPHYLLA - TREE, TO ABOUT 60 FT.
FLS. PINK - SEE PHOTO - ⑦

EL PICACHO - SAN SALVADOR VOLCANO - 4500-6000 FT.
JAN. 27, 1959 - WITH MARIO LAINY -

L. WMS.
7212- PERSEA GIGANTEA - TREE, TO ABOUT 80 FT. - FREQUENT
ON NORTHERN SLOPE IN OAK FOREST. ④

7213 - Pinus pseudostrobus? - Tree, to about 75-80 ft. Cult. - Cones only. ①

Vcty. Ciudad Arce - 2000 ft. - Dept. La Libertad - Jan. 28, 1959 -

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Hemsl.
7214 - Omphalea oleifera - Tree, to about 65 ft. Frs. green, in pendulous clusters - Fruits green - Common near Laguna de Guija and in deciduous forest west of La Libertad. - See photo. ③

Vcty. Santa Tecla - Dept. of La Libertad - 2800 ft. - Jan. 29, 1959 - With Ciro Garcia.

(Walp.) O.F. Cook.
7215 - Erythrina poeppigiana - Tree, to about 75 ft. Fls. bright orange - Occasional in cafetales - See photo. ⑤

Vcty. San Andres - Dept. de La Libertad - 1500 Ft.
Feb. 4, 1959

7216 - Myroxylon Balsamum var. Pereirae (Royle) Harms - Tree, to about 75 Ft. - Fls. white - See photo. (8)

7217 - Coccoloba caracasana Meisn. - Tree, to about 25 Ft. - in cafetal - (8)

Vcty. Coatepeque - 4000 Ft. - Dept. Santa Ana -
Feb. 4, 1959.

7218 - Robinsonella divergens Rose & Baker
Tree, to about 65 Ft. - Fls. white - Rare. (8)

Cerro Verde - Dept. of Sonsonate - 4000-5000 Ft.
Feb. 4, 1959-

7219 - Lonchocarpus guatemalensis Benth. - Tree, to about 65 Ft. - Fls. deep lavender - Very common on Balsam Coast and on the dry hills of the Pacific slope generally. See photo. (4)

7220 - Montanoa guatemalensis Rob. & Greenm. - Tree, to about 30 Ft. - Bark like that of Perymenium - Ray florets white - Disk florets yellow - Common & showy. See photo. (8)
Fls. fragrant

Greenm.
7221 - Citharexylum donnell-smithii - Tree, to about 60 ft.
Fruits orange, in pendulous, conspicuous racemes,
common - See photo. ⑤

tristis Liebm.
7222 - Quercus - Tree, to about 75 ft. - Frequent. ⑤

sublobatum Robinson
7223 - Liabum - Tree, to about 20 ft. - Fls. dark
yellow, very fragrant. Occasional throughout
country, from about 1500 to 4000 ft. ⑥

Lippia myriocephala S. & C.
7224 - ~~Liabum~~ Tree, to about 50 ft. - Fls. greenish
yellow - very common - ⑧

Finca Altamira - Dept. of San Salvador - 2800 ft.
Feb. 5, 1959

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goldmanii Standl.
7225 - Ficus - Tree, to about 25-30 ft., with a
conspicuously spreading, or "umbrella-shaped"
crown - common throughout the country &
frequently planted for cattle shade in
pastures. See photo. ③

Vcty,
San Salvador – Feb. 6, 1959 – 2200 ft. · With Ciro Garcia.

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reflexifolius HBK.
7226 – Croton – Tree, to about 25 ft. – Commonly grown for shade in cafetales – "Copalchí" See photo. Common. (4)

guatemalensis Benth.
7227 – Lonchocarpus – Tree, to about 60 ft. – Fls. lavender – showy – common – See photo. (8)

(Vellozo) Blake
7228 – Schizolobium parahybum – Tree, to about 80 ft. Fls bright yellow – showy – definitely native. See photo. (8)

lagopus Swartz
7229 – Ochroma – Tree, to about 60 ft. – Fls. white – fragrant – See photo. (4)

Santa Tecla – Feb. 12, 1959 – 2800 ft.

Nectandra globosa (Aubl.) Mez
7230 – Lauraceae – Tree, to about 60 ft. – Fls. white, intensely fragrant – Fairly common in cafetales. See photo (8)

7231 – Meiracyllium trinasutum Rchb. f. – Epiphyte – Fls. rose pink – inner base of lip white – fragrant. (2)

7232 - INGA RODRIGUEZIANA PITTIER - TREE, 35 FT. - FLS. WHITE, FRAGRANT - SEE PHOTO - OCCASIONAL AS STREET TREE & OCCASIONAL AS COFFEE SHADE. ⑥

7233 - ARAUCARIA EXCELSA R. BR. - TREE, TO ABOUT 25 FT. - COMMONLY CULTIVATED FOR ORNAMENT - SEE PHOTO. ③

7234 - SESBANIA GRANDIFLORA (L.) POIR - FLS. PINK & WHITE - CULT. - RARE - SEE PHOTO. ①

7235 - CALLISTEMON LANCEOLATUS DC. - TREE, TO ABOUT 20 FT. FLS. RED. CULT. - SEE PHOTO. ④

7236 - COCCOLOBA UVIFERA (L.) JACQ. - TREE, 18 FT. - CULT. FOR ORNAMENT - ②

VCTY. COMAYAGUA, DEPT. OF LA PAZ - 2000 FT. - FEB. 14, 1959

7237 - THOUINIDIUM DECANDRUM (H. & B.) RADLK. TREE, TO ABOUT 50 FT. - FLS. WHITE, CONSPICUOUS. "ZORRILLO" - WOOD REPORTED TO BE USED ONLY AS FUEL. COMMON. ⑧

7238 - IRESINE CALEA (IBAÑEZ) STANDL. - SHRUB OR SMALL TREE, TO ABOUT 15 FT, FLS. WHITE, IN LARGE, CONSPICUOUS TERMINAL PANICLES - SHOWY & COMMON IN HEDGE ROWS. ⑥

VCTY. LA HERRADURA - DEPT. OF LA PAZ - 100 FT.
FEB. 14, 1959.

7239 - MORINGA OLEIFERA Lam. - TREES TO ABOUT 25 FT. COMMON AS HEDGE PLANTS. FLS. WHITE, FRAGRANT - SEE PHOTO. ③

7240 - ERYTHRINA GLAUCA Willd. - TREE, TO ABOUT 60 FT. - FLS. ORANGE - OCCASIONAL. ④

VCTY. SAN SALVADOR - DEPT. OF SAN SALVADOR - FEB. 16, 1959 - 2200 FT.

7241 - CEDRELA ODORATA L. - TREE, TO ABOUT 60 FT. - COMMONLY PLANTED ALONG STREETS AS A SHADE TREE. SEE PHOTO. ①

7242 - JACARANDA FILICIFOLIA DON - TREE, TO ABOUT 50 FT. - FLS. BLUE - CULT. - SEE PHOTO. ③

Vcty. Zacatecoluca - Dept. of La Paz - 300 ft.
Feb. 17, 1959.

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radula Willd.
7243 - Ficus - Tree, to about 60 ft. - Frequent along streams. ⑧

procerum Donn. Sm.
7244 - Zanthoxylum - Tree, to about 75 ft. - Lower trunk with broad-based spines. ⑧

Decne. & Planch.
7245 - Dendropanax arboreum - Tree, to about 50 ft. Fls. white - See photo. ①

Jacq.
7246 - Gyrocarpus americanus - Tree, to about 40 ft. Bark pale & smooth. Occasional on dry ridges. See photo. ②

(Jacq.) Benth.
7247 - Pithecolobium saman - Tree, to about 65 ft. Trunk blackish - Frequent - See photo ②

L.
7248 - Curatella americana - Tree, to about 15 ft. Occasional on dry ridges. See photo ③

Finca Altamira - 2800 ft. - Feb. 18, 1959 -
with Robert Armour.

Pouteria hypoglauca (Standl.) Baehni
7249 - Tree, to about 40 ft. - Fls. greenish white - Fruits yellow at maturity, edible. "Zapote" or "Zapotillo" - Cult. See photo. Like canistel in texture + flavor. ⑥

(HBK.) Baehni
7250 - Pouteria campechiana - Tree, to about 40 ft. Fls. greenish white - ④

Vcty. Santa Ana - Dept. de Santa Ana - 2000 ft.
Feb. 19, 1959 - with Robert Armour.

Eupatorium morifolium Miller
7251 - Compositae - Shrub or small tree, to about 15 ft. - Fls. white - grown from cuttings as a hedge plant in cafetales - "Vara negra" locally common. ③

(Jacq.) Benth.
7252 - Pithecolobium saman - Tree, to about 75 ft. Fls. pink. - See photo. ⑥

Finca Altamira - 2800 ft. - Feb. 22, 1959 -
with Robert Armour.

Diospyros verae-crucis Standl.
7253 - Tree, 30 ft. - Sepals green; petals white. Fruits reported to be yellow & edible. "Jejenance". Infrequent. "Jijinance" ⑧

7254 - Averrhoa bilimbi L. - Fls. deep red. ④

San Salvador - 2200 ft. - Feb. 23, 1959

7255 - Cordia dodecandra DC. - Fls. bright orange, showy - tree, 18 ft. - cult. in patio of Lowy residence. See photo. ②

Cumbre de Santa Tecla, vcty. Comasagua, Dept. of La Libertad - 4000 ft. - Feb. 24, 1959 -
with Robert Armour.

7256 - Clethra salvadorensis Britton - Tree, to about 65 ft. - Fls. white - locally common. ⑧

Lysiloma desmostachys Benth.

7257- Tree, to about 65 ft. in height & 30" in trunk diam. - Bark shaggy. - Fls. white, fragrant. "Sicahuite" (Las Quebradas). Only one specimen seen, along stream. ①

Finca Curazao - Vcty. Jayaque - 2000 ft. - Dept. of La Libertad - Feb. 24, 1959 - with Robt. Armour

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Ceiba aesculifolia (H.B.K.) Baker

7258- Tree, with very thorny trunk, to about 40-50 ft. - Occasionally grown in fence rows in this area. ①

San Salvador - Dept. of San Salvador - 2200 ft. - March 2, 1959

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robusta A. Cunn.

7259- Grevillea - Tree, to 75 ft. - Fls. orange - See photo - ⑤

L.

7260- Parkinsonia aculeata - Tree, to about 18 ft. Fls. bright yellow - cult. - See photo - ②

zeylanicum Nees (Kew Index)

7261- Cinnamomum - Tree, 20 ft. - Fls. pale yellow. - See photo. ④

Vcty. Cuyagualo - Road to Sonsonate - Dept. of La Libertad - 2000 ft. - March 5, 1959.

7262 - *Erythrina* *glauca* Willd. - Tree, to about 60 ft. Fls. orange - Very common, together with willows, on low lands that are wet during the rainy season. *See photo.* (4)

Vcty. La Palma, Dept. of Chalatenango - 3500 ft. March 6, 1959.

7263 - *Quercus* *peduncularis* var. *sublanosa* (Trel.) Muller - Tree, to about 50-60 ft. (frequently less) - Dominant over wide areas in pine-oak area - Leaves browning and falling at this season, rendering the masses conspicuous - *See photos.* *Deciduous* during late dry season. (6)

7264 - *Quercus* *sapotaefolia* Liebm. - Tree, to about 50 ft. (frequently less) - associated with the above, but much less frequent - Foliage dark glossy green & apparently persistent - *See photo.* (8)

L.
7265 - Liquidambar styraciflua - Tree, to about
65 ft. - Fr. green, locally common,
forming almost pure stands in some places.
See photo. (8)

spuria H. & B. ex Willd.
7266 - Inga - Tree to about 30-35 ft. - Fl. white -
frequent in ravines & along streams in
pine-oak area - (2)

Schiede
7267 - Pinus oocarpa - The dominant tree of the
area. See photos. (2)

oocarpa Schiede var. manzanoi Martinez —
7268 - Pinus - Tree, to about 75 ft. - Cones unlike
those of oocarpa - Note 4 needles in
bundles - Infrequent in stands of oocarpa.
Possibly same as 7186? (6)
Apparently a variant form of oocarpa -
not caribaea, which has 3 needles
not pseudostrobus, which has sessile fruits.
See Martinez - Pinaceas Mexicanas p. 303

FINCA MONSERRATE - HILLS SOUTH OF SAN SALVADOR - DEPT. OF SAN SALVADOR - 2400 FT. - MARCH 5, 1959 - WITH ROBERT ARMOUR -

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7269 - TRICHILIA CUNEATA RADLK. ~~[illegible]~~ ? - TREE - TO ABOUT 45 FT. - FLS. WHITE - ⑤

NATIONAL HIGHWAY, ABOUT 2 MILES WEST OF THE PUENTE DE CUSCATLAN - DEPT. OF SAN VICENTE - 250 FT. - MARCH 8, 1959

7270 - BACTRIS BALANOIDEA (OERST.) WENDL. - PLANTS FORM THICKETS SEVERAL ACRES IN EXTENT, UNDER SHADE OF BROSIMUM TERRABANUM (ALICASTRUM?) ON ROCKY GROUND. SEE PHOTOS. ③

OVO - Keys to BACTRIS MAJOR (JACQ.) KARST. in Fl. Pan. BUT DESCRIPTION DOES NOT MATCH WELL.

7271 - BIXA ORELLANA L. - TREE, 15 FT. - OCCASIONAL IN BACTRIS THICKET - SEE PHOTO. ①

National Highway, near Apastepeque - 1500 ft.
Dept. of San Vicente - March 8, 1959.

(L.) Sarg.
7272 - Piscidia piscipula - Tree, to about 25 ft. - Fl. pale pink - Fruits yellowish green, in conspicuous clusters. Infrequent in dry hills, in association with Cassia grandis, Leucaena, Apeiba Tibourbou etc. See photo - ⑩

ovalis (Liebm.) Miq.
7273 - Ficus - Flat-topped, banyan-like tree, to about 30 ft. in height, with reddish brown aerial roots + aspect identical with trees of "Ficus goldmanii" from Golfo Dulce. ⑥

Vicin. Ateos, road to Sonsonate - Dept. of La Libertad - 1000 ft. - March 11, 1959 -

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Caracasana Meisn.
7274 - Coccoloba - Tree, to about 30 ft. - See photo - Also common in wet areas near La Herradura + elsewhere on the coast. ③

Standl.
7275 - Ledenbergia macrantha - Tree, to about 75 ft. (frequently less) - Trunk rough + twisted, occasionally hollow, to 4 ft. in diameter. Flowers green, pendulous. See photo. ①

VCTY. COLON, DEPT. OF LA LIBERTAD - 1800 FT. - MARCH 11, 1959.

7276 - ACACIA GLOMEROSA BENTH. - TREE, TO ABOUT 65 FT. - TRUNK & BRANCHES ARMED WITH PRICKLES - SEE PHOTO. ②

SALT FLATS NEAR ESTERO DE JALTEPEQUE - VCTY. RÍO SAN GERONIMO - DEPT. SAN VICENTE - MARCH 16, 1959.

7277 - CAPPARIS CYNOPHALLOPHORA L. - TREE (OR LARGE SHRUB) TO 25-30 FT. - FLS. WHITE, TURNING PURPLE WITH AGE - FREQUENT ON SALT FLATS - "CAIMITO MONTAÑERO". ③

7278 - AVICENNIA NITIDA JACQ. - TREE, TO ABOUT 18-20 FT. - DOMINANT SPECIES ON SALT FLATS - SILVERY FOLIAGE & CONSPICUOUS COLONIES OF PNEUMATOPHORES. SEE PHOTO. "HOJA DE SAL". ④

PARK - CENTER OF CITY OF CHALCHUAPA - 1800 FT. - DEPT. OF SANTA ANA - MARCH 18, 1959 - WITH ROBERT ARMOUR.

7279 - COUEPIA POLYANDRA (HBK.) ROSE - TREE, TO ABOUT 30 FT. - FLS. WHITE, AGEING TAN - "ZAPOTILLO" CULTIVATED. ⑧

VCTY. LAKE GUIJA - DEPT. OF SANTA ANA - 1200 FT. MARCH 19, 1959 - WITH ROBERT ARMOUR.

7280 - PASSIFLORA HOLOSERICEA L. : VINE - PETALS WHITE - STAMEN RING BRIGHT YELLOW - ATTRACTIVE - ⑥

7281 - PTEROCARPUS HAYESII Hemsl. : - TREE, TO ABOUT 65 FT. & 2 FT. IN TRUNK DIAMETER (OFTEN LESS). BARK SCALING, SUPERFICIALLY LIKE THAT OF CALYCOPHYLLUM, WITH WHICH IT IS ASSOCIATED IN ROCKY PLACES. FLOWERS BRIGHT ORANGE - FAIRLY SHOWY. OCCASIONAL ON OLD LAVA & ELSEWHERE ALONG HIGHWAY. OCCASIONALLY CULTIVATED FOR ORNAMENT IN SAN SALVADOR. ⑧

EMARGINATA L.
7282 - CASSIA - TREE, TO ABOUT 20 FT. - FLOWERS YELLOW.
OCCASIONAL - (8)

DESMOSTACHYS BENTH.
7283 - LYSILOMA - TREE, TO ABOUT 50 FT. - BARK SHAGGY
& SCALING - FLOWERS WHITE, FRAGRANT.
OCCASIONAL ON DRY HILLSIDES, IN ASSOCIATION
WITH CURATELLA, ACACIA PENNATULA ETC. (8)

SUMMIT OF CERRO MONTE CRISTO - DEPT. OF SANTA ANA -
7500 FT. - MARCH 19, 1959 - WITH ROBERT ARMOUR.
(ELEMENTS OF ELFIN FOREST) SEE PHOTO

EUPATORIUM LIGUSTRINUM DC. (FORMA)
7284 - SHRUB, TO ABOUT 6 FT. - FLS. WHITE, FRAGRANT.
COMMON - (8)

GAULTHERIA ODORATA WILLD.
7285 - SHRUB OR SMALL TREE, TO ABOUT 8 FT. - FLOWERS
WHITE - NEW LEAVES RED - CONSPICUOUS -
VERY COMMON & APPARENTLY BECOMES TALLER (TAKEN ON SANTA ANA) WITH LARGER (8)
FOLIAGE WHEN PROTECTED FROM WIND, AS IN THIS
SITUATION.

WEINMANNIA TURCKHEIMII ENGL.
7286 - TREE, TO ABOUT 10-12 FT. - OCCASIONAL ON MARGINS
WHERE PROTECTED FROM WIND. WEINMANNIA? - (4)

PITTIERI HACK. (McClure)
SUBTESSELLATA. HITCHC. (?) STERILE!
7287 - CHUSQUEA - FORMS THICKETS 4-6 FT. IN
HEIGHT - ONE OF THE DOMINANT ELEMENTS - (1)

L.
7288 - Myrica cerifera - Tree, to about 8-10 ft. - Common on margins of summit. - (1)

Clethra skutchii Kobuski
7289 - Tree, 6-8 ft. - Occasional on summit. (1)

guianensis Aubl.
~~Ferruginea (Ruiz & Pavon) Mez~~
7290 - Rapanea - Tree, to 6-8 ft. - Occasional on margins where somewhat protected from wind. (1)

D. Smi
7291 - Clusia salvinii - Tree, to about 6-8 ft. - Occasional on summit. (1)

Myrtus montana Benth.
7292 - Shrub, to about 4 ft. - Common on summit. Leaves aromatic when crushed. (3)

Cerro Monte Cristo - Clearings & forested ridges - 6500 ft. - March 19, 1959 - with Robert Armour -

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Eupatorium ruae Standl.
7293 - Shrub or tree, to about 18 ft. - Flowers lavender - fragrant - very common and showy in clearings & along trails. (8)

luxii C.DC.
7294 - Piper - Tree, to about 18 ft. - Occasional on forested ridges. (8)

VCTY. LAKE GUIJA - DEPT. OF SANTA ANA - 1000-1200 FT. MARCH 19, 1959.

7295 - ASTIANTHUS VIMINALIS (HBK.) BAILL. - TREE, WITH SCALING BARK - TO ABOUT 24" IN TRUNK DIAMETER & 60 FT. IN HEIGHT. - FLS. BRIGHT YELLOW, SHOWY - INFREQUENT ALONG STREAMS FLOWING INTO LAKE GUIJA - SEE PHOTO (8)

7296 - SLOANEA TERNIFLORA (MOC. & SESSÉ) STANDL. - TREE, 80 FT. - FRUITS DARK RED - HAIRS EASILY DETACHABLE & IRRITANT. OCCASIONAL - SEE PHOTO. (6)

LA LIBERTAD, DEPT. OF LA LIBERTAD - SEA LEVEL - MARCH 21, 1959.

7297 - TABEBUIA CHRYSANTHA (JACQ.) NICHOLS. - TREE, TO ABOUT 45 FT., WITH ROUNDED CROWN. TRUNK ABOUT 16" IN DIAMETER. FLOWERS YELLOW - ONLY ONE SPECIMEN SEEN. - REPORTED TO BE COMMON BY PARK - CALYX ATYPICALLY PUBERULENT & SOMEWHAT SMALLER THAN AVERAGE, BUT MATCHES MANY SPECIMENS SO DETERMINED IN THE SMITHSONIAN HERBARIUM. (8)

San Salvador - 2400 ft. - April 1, 1959

formosana Hayata ~~bipinnata Franch.~~?
7298 - Koelreuteria ~~paniculata Laxm.~~ - Tree, cultivated for ornament by Don Federico García Prieto - Recently introduced. Leaves only. ①
Identification not certain.

7299 - Trophis racemosa (L.) Urban - Tree, 50 ft. Milky latex - In grounds of Don Federico García Prieto. ③

La Libertad - Dept. of La Libertad - Sea level - April 19, 1959 -

chrysantha (Jacq.) Nichols.
7300 - Tabebuia - Tree, 40 ft. - Same as No. 7297 - ⑧
Atypical, but matches many specimens so determined in the Smithsonian Herbarium.

Coastal Highway between La Libertad and Acajutla, Dept. of Sonsonate - 0-300 ft. - April 23, 1959 - With Mario Lewy Van Severen -

mombin L.
7301 - Spondias - Tree, to about 60 ft. - Bark very rough - Fls. white - Frequent. - ⑥

7302 - Stigmaphyllon - Woody liana - Flowers bright yellow - Showy - ⑧

glabra (Mill.) Standl.
7303 - Dalbergia - Woody liana - Fls. white - Frequent - Fairly conspicuous. ⑧

7304 - Epidendrum papillosum Batem. ex Lindl. -
Very common on morro trees - (3)

Vcty. Santa Tecla - 2200 Ft. - Dept. of La Libertad -
April 30, 1959.

7305 - Carica cauliflora Jacq.? - From same plant as earlier sterile collection - Plants have been cut down in the interval, so that the present specimen has been taken from an abnormal stump sprout, quite different in leaf and flowering habit from the norm. Inflorescences typically are completely cauliflorous, of small, compact clusters of flowers, borne throughout the length of the trunk, to its very base. Flower color white. (1)

Parcela San Isidro - Area east of Izalco volcano -
1800 Ft. - Dept. of Sonsonate - April 30, 1959

7306 - Cyrtopodium punctatum - See photo. (1)

LOS ESESMILES - HIGHLAND AREA EAST OF LA PALMA, DEPT. OF CHALATENANGO, 6000-7500 FT. MAY 6-7, 1959 - WITH MARIO LANG VAN SEVEREN.

7307 - *OSTRYA VIRGINIANA* VAR. *GUATEMALENSIS* (WINKL.) MACBR. ~~CARPINUS~~, TREE, TO ABOUT 50 FT. IN HEIGHT - LOCALLY VERY COMMON IN OAK ZONE AT ABOUT 6000 FT. ⑦

7308 - *NAGELIELLA ANGUSTIFOLIA* (BOOTH EX LINDL.) AMES & CORRELL - EPIPHYTIC ON ROCKS, IN SHADED PLACES ALONG STREAMS. LEAVES GRAYISH GREEN, VERY FLESHY, HEAVILY FLECKED WITH REDDISH PURPLE - FLOWERS VIVID ROSE. ③ SEE PHOTO.

7309 - ODONTOGLOSSUM *STELLATUM* LINDL. - S. & P. TAN - LIP WHITE, OFTEN SUFFUSED WITH PINK AT THE BASE. VERY COMMON ON *ILEX* & PINES AT ABOUT 7500 FT. SEE PHOTO - ⑦

7310 - *PARATHESIS MELANOSTICTA* (SCHL.) HEMSL. TREE TO ABOUT 20 FT. - FLOWERS PINK - FAIRLY FREQUENT AT 7500 FT. IN ASSOCIATION WITH RAPANEA, IN PINE FOREST. ⑧

7311 - *ISOCHILUS LINEARIS* (JACQ.) R.BR. - EPIPHYTIC ON OAKS - FLS. BRIGHT ORANGE - FAIRLY COMMON. ⑤ SEE PHOTO.

7312 - Pinus ayacahuite Ehrenberg - Tree, to about 90 ft. in height. - Bark of branches smooth, Alnus-like in aspect. Lower trunk with gray, finely flaking bark. Conspicuous from a distance in its narrow crown & very short, dark green needles. Common, forming nearly pure stands in some places. (10)

7313 - Olmediella betscheriana - Fruits only. (1)

7314 - Styrax polyneurus Perk. - Tree, to about 60 ft. - Common in broad-leaved forest at about 7500 ft. (5)

7315 - Quercus eesmilensis Tucker & Muller - Tree, to 90 ft. - Very common in broad-leaved forest at 7500 ft. - Sterile - (5)

7316 - Epidendrum sobralioides Ames & Correll - Epiphyte - Sepals greenish yellow, heavily suffused reddish brown - petals greenish yellow lip greenish yellow, heavily tinged brownish on sides and central stripe. Fairly common. See photo (4)

7317 - Clethra skutchii Kobuski - Tree, to about 50 ft. - Common in broad-leaved forest at 7500 ft. Sterile - (5)

Cobenarfolia Liebm.
7318 - Quercus - Tree, to about 90 ft. - Common in broad-leaved forest at about 7500 ft. - Sterile - (4)

Guianensis Aubl.
7319 - Rapanea - Tree, to about 12 ft. - Common in broad-leaved forest at 7500 ft. (6)

7320 - Abies guatemalensis Rehder - Tree, to about 75 ft. in height = Now rare and local, surviving specimens often confined to steep-walled barrancas & other inaccessible places at about 6000 - 6500 ft. - Sterile (8)

Pachychlamys D. Sm.
7321 - Eugenia Shrub or small tree, to about 15 ft. Flower buds brown - petals white - fruits reddish brown - Very common at 6000-6500 ft., especially on cutover land. (16)

7322 - Cupressus lusitanica Miller - Tree, to 90 ft. - Common & apparently native from 6000 to about 7500 ft. (8)

Padifolia HBK.
7323 - Ficus - Tree, to about 30 ft. - Fruits dark purple - occasional at 6000 ft. & below. (8)

7324 - Pinus pseudostrobus Lindl. - Tree, to about 90 ft. - Needles long & lax, usually silvery or grayish, particularly in young specimens. See photo. ⑧

Hartwegii Lindl. var aff.

7325 - Pinus - Trees, to about 100 ft. in height and 6 ft. in trunk diameter, b.h. - Bark of upper trunk and branches with thin, closely appressed flakes which are reddish in appearance - lower trunk with very rough, deeply fissured bark, which flakes off in thick, laminated plates. Cones much smaller than in pseudostrobus and smaller in diameter than oocarpa. A common species, at 6000-7000 ft., associated with Pinus ayacahuite and Pinus pseudostrobus. "Pino colorado" See photo. - See Martinez, Las Pinaceas Mexicanas, p. 223 ⑧

San Salvador - Dept. of San Salvador - 2200 ft. - May 12, 1959 -

7326 - Cassia javanica L. - Spreading tree, to about 30 ft. in height, with thorny trunk and showy pink flowers produced on short lateral spurs from the principal branches. Cultivated for ornament, but not common - See photo. ③

7327 - Cassia fistula L. - Slender, erect tree, to about 35 ft. - Flowers bright yellow - Not common - Cult. for ornament - See photo. ①

Forested ridges north of Chiltiujan, Dept. of La Libertad, elevation about 4000 ft. - May 14, 1959 - with Robert Armour -

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7328 - Mauria glauca D. Sm. ~~Burseraceae~~ - Tree, 40 ft. - Leaf petioles & veins pink - Fruits red - Foliage has strong aromatic odor when crushed - Fairly frequent on ridges together with Quercus & Ternstroemia "Jocotillo montes" ⑧

7329 - Guettarda macrosperma D. Sm. Shrub or tree, to about 20 ft. - Fls. white - Fairly frequent on oak ridges - ⑧

7330 - Quercus hondurensis Trel. - Tree, to about 75 ft. in height - Locally common & apparently dominant on ridges - See photo. ⑧

7331 - Erythroxylon pallidum Rose? - Tree, 35 ft. - Frequent on ridges - ⑧

TEPEZAPOTE SCHL. & CHAM.
7332 - TERNSTROEMIA - HANDSOME, STRAIGHT-TRUNKED TREE, TO ABOUT 60 FT. IN HEIGHT AND 14" IN TRUNK DIAM. FLOWERS PINK - VERY COMMON ON RIDGES & ONE OF THE CONSPICUOUS & DOMINANT ELEMENTS - ⑧
SEE PHOTO.

NICARAGUENSIS SEEM.
7333 - SAPRANTHUS - TREE, 20 FT. - FLOWERS GREENISH - PURPLE - OCCASIONAL ON RIDGES. ①

HILLS NEAR THE RIO ZONTE, AREA WEST OF LA LIBERTAD - DEPT. OF LA LIBERTAD - 1000 FT. - MAY 14, 1959 - WITH ROBERT ARMOUR. - AREA OF BALSAM TAPPING - PRONOUNCED FRAGRANCE OF BALSAM AS ONE DRIVES THROUGH FOREST.

CRUCIS L.
7334 - PROCKIA - TREE, TO ABOUT 18 FT. - FLOWERS GREEN, WITH YELLOW STAMENS - FAIRLY FREQUENT ALONG SMALL ROCKY STREAMS. ⑧

Allophylus OCCIDENTALIS (SW.) RADLK.
7335 - SAPINDACEAE - TREE, 18 FT. - FLS. GREENISH WHITE - FAIRLY COMMON ALONG ROCKY STREAMS. ⑧

PURPUREA MOC. & SESSÉ
7336 - ANNONA - TREE, TO ABOUT 20 FT. - OUTER SURFACE OF FLESHY SEPALS TAN - INNER SURFACE & PETALS REDDISH PURPLE - OCCASIONAL. ④

7337 - IONOPSIS UTRICULARIOIDES - FLS. PINKISH LAVENDER - ④

HONDURAS

Highway between Siguatepeque and Pito Solo - Dept. of Comayagua - 2500 ft. - May 19, 1959.

Hondurense Standl.
7338 - **Distylium** ~~Guatemalense~~ Radlk. - Tree, to about 90 ft. in height and 3 ft. in trunk diam. Flowers yellowish white - locally common near small streams. Not seen elsewhere. ⑩

Vcty. Agua Salada, Highway between Comayagua and Siguatepeque, 2000 ft. - May 19, 1959.

Macrostachya Standl.
7339 - **Bucida** - Tree, to about 60 ft. in height and 18" in trunk diam. - Fls. pale yellow. Locally dominant on nearly desert clay hills. Not seen elsewhere - ④

VARIETIES MARKED X RECEIVED IN HONDURAS.

PLANTS OF THE PHILIPPINES.

MOUNT MAKILING, LAGUNA PROVINCE, LUZON - 1050 FT.
OCT. 7, 1959 - WITH NADER VAKILI.

7340 - MAP 1-D - MUSA ACUMINATA BANKSII - FAIRLY COMMON IN CLEARINGS AND ALONG ROAD BELOW MUD SPRING, BUT NOT SEEN IN PRIMARY FOREST. A VERY SUPERIOR FORM, WITH TALL PSEUDOSTEMS AND LARGE BUNCHES OF WELL-FORMED FRUITS. SEEDS SENT TO THORNTON, LA LIMA, BY AIR MAIL FROM MANILA OCT. 9, 1959. (5 RHIZOMES SHIPPED TO BELTSVILLE BY PAA) - SEE EXPEDITION FIELD NOTES AND PHOTOS. PLANTED AT COLLEGE & SENT TO U.S.

7341 - PHOTO ONLY, OF CURIOUS ACUMINATA-TYPE WITH ROSE COLORED BRACTS - GROWN IN COLLEGE ABACA TEST PLOT UNDER THE NAME OF MINAY, PROBABLY IN ERROR. (THIS IS THE SAME THING GROWN AT THE BANAO STATION, GUINOBATAN, ALBAY AS "AROTAY" & CAME FROM THERE.

7342 - PANGIUM EDULE - CULTIVATED TREE, TO ABOUT 75 FT. IN HEIGHT, WITH ALEURITES-LIKE FOLIAGE AND BROWN, ELLIPSOIDAL FRUITS UP TO ABOUT A FOOT IN LENGTH AND 8" IN DIAMETER, CONTAINING MANY LARGE SEEDS, EACH SURROUNDED BY A PALE ORANGE, JUICY PULP THAT IS SWEET, AROMATIC AND EDIBLE, AND RATHER REMINISCENT OF ANNONA, IN SOME WAYS. SEEDS YIELD AN EDIBLE OIL AFTER PROCESSING AND A HIGHLY POISONOUS SEMI-DRYING OIL IF UNTREATED. SEE BROWN, USEFUL PLANTS OF THE PHILIPPINES FOR GOOD ACCOUNT. 4 SEEDS AIRMAILED TO HONDURAS OCT. 9, 1959. - SEE PHOTO.

Los Banos - Luzon - 450 ft. Oct. 11, 1959

7343 - Musa balbisiana (?) "Butuhan" - gigantic plants, with yellow, somewhat beaked fruits, which are filled with seeds. In backyard garden on Faculty Hill. - See photos. (Sent to U.S.)
2 - Re-sent under same number in April, 1960 -

7344 - 2-A-B-C-D - Cultivated variety known as "Saba" - fruits seedless, yellow when ripe - the commonest edible banana of the area, which is usually cooked. The terminal (male) bud is also used as a vegetable (boiled in salt water) and somewhat resembles heart of palm in flavor. See photos. (Sent to U.S.)

7345 - Cultivated, edible variety known as Sinuea. See photos, but discarded after digging due to a reddish exudate from the starchy portion of the rhizome that resembled bacterial wilt. Specimens sent to Budenhagen.

7346 - "Latundan" an edible variety. - See photos, but rhizomes discarded after digging due to evidence of bacterial wilt. This variety frequently shows extreme yellowing of the foliage in the current pseudostem, as it reaches maturity, as for example in many plants in the college variety test plot, but may on occasion have no outward manifestations. Apparently extremely susceptible to bacterial wilt. (Discarded)

LOS BAÑOS BANANA VARIETY PLOT - 100 FT. OCT. 12, 1959
WITH NADER VAKILI.

7347 - EDIBLE VARIETY KNOWN AS "KATALI" - SEE NOTES & PHOTOS. (SENT TO U.S.) AN ABB TYPE.

X 7348 - CURIOUS BANANA LABELED X-5 - IN PLOT. HAS ONLY 2 FEMALE HANDS. VAKILI THINKS THIS IS ILLUSTRATED BY EITHER QUISUMBING OR TEODORO. - SEE PHOTOS & NOTES. "~~BALONEKAWE~~" (?) SABANG CURRAN. (SENT TO U.S.) - TIPAROT ?

SANTO DOMINGO, ALBAY - ON SLOPES OF MOUNT MAYON - 550 FT. OCT. 18, 1959 - WITH NADER VAKILI -

7349 - "PINIPITO" - DISCARDED BECAUSE OF EVIDENCE OF RHIZOME ROT. —

7350 - "BUNGURAN" - STOOLING HABIT COMPACT, WITH RELATIVELY FEW PSEUDOSTEMS, WHICH ARE ROBUST AND PURPLISH WITH BLACK BLOTCHES, & 4.6 M. TALL & 25 CM. IN DIAMETER AT THE BASE. BUNCH COMPACT, PENDULOUS, WITH 8 HANDS & 130 AGEOTROPHIC FINGERS, WHICH ARE 10 CM. LONG AND ABOUT 3.5 CM. IN DIAMETER. CULTIVATED. SEE PHOTO.
AN AAA TYPE, BELONGING TO THE CAVENDISH GROUP.
(PLANTED AT COLLEGE & SENT TO U.S.)

SAN JOSE, MALILIPOT, ALBAY, ON SLOPES OF MAYON VOLCANO - 150 FT. - OCT. 18, 1959 - WITH NADER VAKILI -

- ALL DEAD AT COLLEGE MAY 6, 1960

7351 - "INABACA" (?) - STOOLING HABIT COMPACT, WITH RELATIVELY FEW PSEUDOSTEMS, WHICH ARE LIGHT BROWN, WITH BLOTCHES TOWARD THE BASE. PSEUDOSTEMS 2.7 METERS TALL & 15 CM. THICK AT THE BASE. BUNCH HORIZONTAL, WITH 5 HANDS AND ABOUT 75 FINGERS WHICH ARE PERPENDICULAR TO THE RACHIS AND 9 CM. LONG AND 2.5 CM. IN DIAMETER. CULTIVATED. PROBABLY A PARTHENOCARPIC AA DIPLOID. SEE PHOTO - (PLANTED AT COLLEGE & SENT TO U.S.)

SAN ANTONIO, TABACO, ALBAY - ON SLOPES OF MAYON VOLCANO - 400 FT. - OCT. 18, 1959 - WITH NADER VAKILI -

7352 - "INARNIBAL" (?) - STOOLING HABIT COMPACT, WITH RELATIVELY FEW PSEUDOSTEMS, WHICH ARE GREEN WITH BLACKISH BLOTCHES, AND 4.05 M. TALL & 33 CM. IN DIAMETER AT THE BASE. BUNCH PENDULOUS, WITH 10 HANDS AND ABOUT 375 FINGERS, WHICH ARE AGEOTROPHIC AND 12 CM. LONG AND 3 CM. IN DIAMETER. CULTIVATED. AN ACUMINATA-TYPE, OF UNCERTAIN PLOIDY, WITH THE LARGEST LEAVES SEEN TO DATE AMONG THE EDIBLE-FRUITED ACUMINATAS. NO EVIDENCE OF LEAF SPOT. - SEE PHOTO. AAA ? (PLANTED AT COLLEGE & SENT TO U.S.)

GUINOBATAN, ALBAY, ON SLOPES OF THE BANAO RANGE - 300 FT.
OCT. 19, 1959 - WITH NADER VAKILI -

7353 - "CANARA" OR "KANARA" - PSEUDOSTEM SOLITARY DURING FIRST YEAR IT IS PLANTED, PRODUCING SUCKERS ONLY AFTER THE INITIAL STEM HAS FRUITED. PSEUDOSTEMS ROBUST, YELLOWISH GREEN, WITH LIGHT BROWN BLOTCHES, 4 METERS TALL & 30 CM. IN DIAMETER AT THE BASE. BUNCH PENDULOUS, COMPACT, WITH 13 HANDS AND ABOUT 185 FINGERS. CULTIVATED. AN AAB TYPE TRIPLOID - SEE PHOTO.
(PLANTED AT COLLEGE & SENT TO U.S.)

X 7354 - "LAKNAU" - STOOLING HABIT COMPACT, WITH MANY PSEUDO-STEMS, WHICH ARE GREEN WITH BLACKISH BLOTCHES AT THE LEAF BASE AND 4.3 M. TALL & 32 CM. IN DIAMETER AT THE BASE. BUNCH PENDULOUS, WITH 7 HANDS AND ABOUT 100 FINGERS, WHICH ARE CYLINDRIC, SPLAYED, AND ABOUT 27 CM. LONG AND 4.2 CM. IN DIAMETER. CULTIVATED. AN AAB TYPE TRIPLOID PLANTAIN. - SEE PHOTO.
(PLANTED AT COLLEGE & SENT TO U.S.)

X 7355 - "INABACA" - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS, WHICH ARE GREEN, COVERED WITH DARK BROWN BLOTCHES, & 5.2 M. TALL & 22 CM. THICK AT THE BASE. BUNCH SUB-HORIZONTAL, WITH 12 HANDS, THE FINGERS PERPENDICULAR TO THE RACHIS. BRACTS OF THE MALE BUD GREEN, WITH PURPLE MARGINS. CULTIVATED, A PARTHENOCARPIC ACUMINATA TYPE, PROBABLY DIPLOID. SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.)

JUBAN, SORSOGON PROVINCE, LUZON - ELEVATION ABOUT SEA LEVEL - OCT. 20, 1959 - WITH NADER VAKILI.

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x 7356 - "RACADAG" - STOOLING HABIT COMPACT, WITH MANY DARK BROWN PSEUDOSTEMS WHICH ARE 1.6 M. TALL AND 15 CM. IN DIAMETER AT THE BASE. BUNCH PENDULOUS, WITH 7 HANDS AND ABOUT 125 FINGERS. SUPERFICIALLY RESEMBLES A DWARF CAVENDISH, BUT PROBABLY A TRIPLOID ACUMINATA TYPE, NOT MATCHING ANY OF THE KNOWN CAVENDISH VARIETIES. CULTIVATED. SEE PHOTO.
(PLANTED AT COLLEGE & SENT TO U.S.)

SLOPES OF MOUNT BULUSAN, SORSOGON PROVINCE, LUZON - 1600 FT. - OCT. 20, 1959. - WITH NADER VAKILI -

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7357 - "AGOTAY" - STOOLING HABIT COMPACT, WITH FEW PSEUDOSTEMS, WHICH ARE GREEN WITH BROWNISH BLOTCHES AND GENERALLY VERY SIMILAR TO "SAGUING MACHIN", AS IT OCCURS ON MOUNT MAKILING, NEAR THE COLLEGE OF AGRICULTURE, BUT WITH A GREATER DEGREE OF SPLAYING IN THE SOMEWHAT SHORTER FINGERS, AND IN THE PRESENCE OF A PURPLISH TINT NEAR THE TIP OF THE MALE BRACT. A WILD PLANT FOUND THROUGHOUT THE LAKE BULUSAN AREA, & ABOUT INTERMEDIATE IN CHARACTER BETWEEN OUR NO. 7340 & 7359. - SEE PHOTO.
(PLANTED AT COLLEGE & SENT TO U.S.)

BANAO RANGE, NEAR GUINOBATAN, ALBAY PROVINCE, LUZON - 1250 FT.±
OCT. 21, 1959 - WITH NADER VAKILI.

x 7358 - "TUDOC" - STOOLING HABIT COMPACT, WITH RELATIVELY FEW DARK BROWN TO BLACKISH PSEUDOSTEMS, WHICH ARE 2.4 M. HIGH AND 20 CM. IN DIAMETER AT THE BASE. BUNCH PENDULOUS, RATHER OPEN-HANDED, WITH 7 HANDS AND ABOUT 145 FINGERS, WHICH ARE AGEOTROPHIC IN POSITION. CULTIVATED. THE MALE BUD, IN THIS VARIETY, REACHES THE GROUND, IF NOT REMOVED. PROBABLY A MEMBER OF THE GIANT CAVENDISH GROUP. SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.) AN AAA TYPE

x 7359 - "AGOTAY" OR "INAGOTAY" - STOOLING HABIT COMPACT, WITH RELATIVELY FEW PSEUDOSTEMS, WHICH ARE GREEN IN COLOR, WITH LIGHT BLACKISH PURPLE BLOTCHES & 4.7 M. TALL & 27 CM. IN DIAMETER AT THE BASE. BUNCH SEMI-PENDULOUS, WITH 7 HANDS, THE FINGERS MORE OR LESS SPLAYED AND 8 CM. IN LENGTH AND 1.7 CM. IN DIAMETER. MALE BRACT CONSPICUOUSLY PURPLISH, WITH GREEN STREAKS, MATCHING OUR 7341 GROWN IN THE ABACA PLOT AT LOS BANOS IN THIS RESPECT, & PROBABLY IDENTICAL. A WILD, SEEDED TYPE, GROWN IN THE ABACA COLLECTION FOR OBSERVATION. SEE PHOTO (PLANTED AT COLLEGE & SENT TO U.S.)

7360 - "TURONGKOG" - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS, WHICH ARE GREEN, WITH DARK BROWN BLOTCHES AND 3.1 M. IN HEIGHT AND 20 CM. IN DIAMETER AT THE BASE. BUNCH HORIZONTAL, WITH 5 HANDS AND SPLAYED FINGERS. A SABA TYPE, WITH UPRIGHT LEAVES, VERY RESISTANT TO THE DISEASES PREVALENT IN THE AREA. PROBABLY A PARTHENOCARPIC DIPLOID OF MUSA BALBISIANA. CULTIVATED. SEE PHOTO - (PLANTED AT COLLEGE & SENT TO U.S.)

7361 - "INANGEL" - STOOLING HABIT COMPACT, WITH MANY GREEN PSEUDOSTEMS WITH BROWNISH BLOTCHES, WHICH ARE 2.3 M. TALL & 23 CM. IN DIAMETER AT THE BASE. BUNCH PENDULOUS, WITH 13 HANDS AND ABOUT 195 FINGERS, WHICH ARE 12 CM. LONG AND 3 CM. IN DIAMETER, ELLIPSOIDAL & AGEOTROPIC. CULTIVATED. COULD BE A TRIPLOID AAA ACUMINATA TYPE. SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.)

7362 - "SIAMESE" - STOOLING HABIT COMPACT, WITH MANY BROWNISH PSEUDOSTEMS 4.1 M. TALL & 24 CM. IN DIAMETER AT THE BASE. BUNCH PENDULOUS, WITH 12 HANDS AND 240 FINGERS, WHICH ARE PARTLY AGEOTROPIC AND 11 CM. LONG & 3 CM. IN DIAMETER. ORIGINALLY BROUGHT FROM LOS BAÑOS, BY THE PRESENT GROWER. PROBABLY AN AAA ACUMINATA TYPE - SEE PHOTO.
(PLANTED AT COLLEGE & SENT TO U.S.) - SEE 7526

PALANOG, GUINOBATAN, ALBAY PROVINCE, LUZON - 1400 FT. OCT. 22, 1959 - WITH NADER VAKILI.

X 7363 - "PINIJITA" - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS WHICH ARE GREEN, TO SLIGHTLY BROWNISH NEAR THE LEAF BASE & 4.2 M. TALL & 26 CM. IN DIAMETER AT THE BASE. BUNCH SUB-HORIZONTAL, WITH 6 HANDS AND 50 ARCUATE FINGERS WHICH ARE 15 CM. LONG AND 4 CM. IN DIAMETER. CULTIVATED. VERY SIMILAR TO "CHATO", BUT WITH PERSISTENT MALE FLOWERS. - SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.) AN ABB TYPE.

BALIGANG, CAMALIG, ALBAY PROVINCE, LUZON. 1350 FT. OCT. 22, 1959. WITH NADER VAKILI -

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(PLANTED AT COLLEGE & SENT TO U.S.)

7364 - "BENENDITO" ("DOMINO"?) - STOOLING HABIT COMPACT, WITH MANY SABA-LIKE PSEUDOSTEMS, WHICH ARE GREEN WITH BROWN BLOTCHES & 4.5 M. IN HEIGHT AND 32 CM. IN DIAMETER AT THE BASE. BUNCH SEMI-PENDULOUS, WITH 7 HANDS OF FUSED FINGERS, WHICH ARE STRONGLY SPLAYED AND ABOUT 14 CM. IN LENGTH. CULTIVATED. THERE IS SOME DIFFERENCE OF LOCAL OPINION AS TO WHETHER THIS SHOULD BE CALLED "DOMINO" RATHER THAN "BENENDITO" REGARDING THE LATTER NAME FOR THE COMMONER VARIANTS WITH MORE OPEN BUNCHES & FEWER HANDS. BUNCH ON PLANT COLLECTED TOO POOR TO PHOTOGRAPH, BUT VERY LARGE & COMPACT AS COMPARED TO MOST OF THIS TYPE SEEN, WHICH AVERAGE ABOUT 4-5 HANDS. VAKILI BELIEVES THEM TO BE THE SAME THING.

BARRIO PADANG, LEGASPI, ALBAY PROVINCE, LUZON - 800 FT.
OCT. 23, 1959.

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x 7365- "SABNAY" - STOOLING HABIT COMPACT, WITH MANY LIGHT BROWN PSEUDOSTEMS 1.75 M. IN HEIGHT & 13 CM. IN DIAMETER AT THE BASE. BUNCH HORIZONTAL, WITH 6 HANDS & 90 FINGERS WHICH ARE PERPENDICULAR TO THE RACHIS & 12 CM. LONG & 2.2 CM. IN DIAMETER. CULTIVATED. AN ACUMINATA-TYPE - PROBABLY DIPLOID. SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.)

DANLOG, PUTIAO, SORSOGON PROVINCE - 800 FT., OCT. 23, 1959 - WITH NADER VAKILI.

✓ 7366 "SABAT SUT" - STOOLING HABIT COMPACT, WITH FEW LIGHT BROWN PSEUDOSTEMS 3.35 M. TALL & 23 CM. IN DIAMETER AT THE BASE. BUNCH PENDULOUS WITH 9 HANDS AND ABOUT 100 FINGERS, WHICH ARE PERPENDICULAR TO THE RACHIS AND 7 CM. LONG & 2 CM. THICK. CULTIVATED. A PARTHENOCARPIC DIPLOID ACUMINATA TYPE, VERY SIMILAR TO INARNIBAL. SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.)

MOUNT MAYON - ALBAY PROVINCE, LUZON - 2200 FT.
OCT. 23, 1959 - WITH NADER VAKILI -

X 7367 - "AGOTAY" - STOOLING HABIT COMPACT, WITH RELATIVELY FEW BROWNISH-BLOTCHED PSEUDOSTEMS. BUNCH SUB-HORIZONTAL, WITH GREEN MALE BRACTS. SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.)

FORESTED AREA N.E. OF MOUNT APO, [illegible] VCTY. BARRIO OF
CARMEN 3200 FT. NOV. 6, 1959 - WITH NADER VAKILI
DAVAO PROVINCE, MINDANAO.

7368 - MUSA ACUMINATA BANKSII - "AGOTAY" - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS 5.5 M. TALL & 25 CM. IN DIAMETER, WHICH ARE PURPLISH IN COLOR, ENTIRELY MARKED WITH BLACK BLOTCHES. BUNCH STRONGLY ASCENDING, AT AN ANGLE OF NEARLY 45°, WITH SMALLER PLANTS OFTEN HAVING THE BUNCH NEARLY OR QUITE ERECT, AS IN M. FE'I. MALE BRACT GREEN. BUNCH WITH ABOUT 15 HANDS, WHICH ARE AGEOTROPHIC - INDIVIDUAL FINGERS 22 CM. LONG & 1.7 CM. IN DIAMETER, WITH A PRONOUNCED CONSTRICTION OR "BEAK" AT THE TIP. VERY COMMON, IN TREE FERN THICKETS, ALONG STREAMS, AND ON CUTOVER ABACA LAND. - SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.)

7369 - SAME AS NO. 7368, BUT WITH A DARK BROWN LEAF PETIOLE, & BROWN SPOTTED LEAF MIDRIB. COMMON. PLANTED AT COLLEGE, BUT NOT SENT TO U.S. DUE TO BORER DAMAGE. (SEEDS SENT TO HONDURAS). SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.)

~~7370 - SAME AS NO. 7369, BUT WITH A PURPLE MALE BUD.~~

FORESTED ~~AREA EAST~~ SLOPES (EASTERN) OF MOUNT APO - UPPER CATIDAN VALLEY - 3000 FT, NOV. 7, 1959 - WITH NADER VAKILI
DAVAO PROVINCE, MINDANAO -

7370 - MUSA ACUMINATA BANKSII (??) - STOOLING HABIT, COMPACT, WITH MANY PSEUDOSTEMS 4 M. IN HEIGHT & 24 CM. IN DIAMETER AT THE BASE. PSEUDOSTEMS PURPLE, MARKED WITH DARK BROWN ON THE UPPER PORTION. BUNCH HORIZONTAL, WITH 7 HANDS, THE INDIVIDUAL FINGERS AGEOTROPHIC & 11 CM. LONG & 2 CM. IN DIAMETER, MOSTLY RATHER STRONGLY ANGLED, & EDIBLE, WITH SWEETISH, LADY-FINGER LIKE PULP BETWEEN THE MANY SEEDS (PARTIALLY PARTHENOCARPIC) MALE BUD STRIPED PURPLE & GREEN, & PURPLISH GREEN WITHIN. NEW LEAVES PURPLE - LEAF PETIOLE & MIDRIB PURPLISH. A SINGLE PLANT, GROWING ON MORE OR LESS ABANDONED LAND, ON THE EDGE OF A FORMER BANANA & ABACA PLOT, WHERE ISOLATED PLANTS STILL PERSISTED. HAS VERY MUCH THE LOOK OF A NATURAL HYBRID. SEE PHOTOS. (PLANTED AT COLLEGE & SENT TO U.S.)

7371 - MUSA ACUMINATA BANKSII - SAME AS NO. 7368 & 7369, BUT WITH A PURPLE MALE BUD. - SEE PHOTO (PLANTED AT COLLEGE & SENT TO U.S.)

FORESTED HILLS WEST OF COMPOSTELA LUMBERING ROAD NEAR BARRIO OF SOLLAWON, SAON, DAVAO PROVINCE, MINDANAO - 850 FT. NOV. 8, 1959 - WITH NADER VAKILI.

X 7372 - NO NATIVE NAME KNOWN - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS 3.9 M. TALL & 22 CM. IN DIAMETER. PSEUDOSTEMS GREEN, WITH LIGHT BROWN BLOTCHES. BUNCH PENDULOUS, WITH 6 HANDS. MALE BRACT DULL PURPLISH BROWN OUTSIDE - YELLOW WITH PURPLISH MARGINS WITHIN. A HORSE, OR LAKNAO-TYPE PLANTAIN - POSSIBLY DIPLOID. SEE PHOTO. CULTIVATED. (PLANTED AT COLLEGE & SENT TO U.S.) - AN AAB? TYPE

Like many from New Guinea

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X 7373 - "INAHOY" - STOOLING HABIT COMPACT, WITH MANY GREEN PSEUDOSTEMS, HAVING BLACK BLOTCHES ON THE LOWER HALF. BUNCH PENDULOUS, WITH 8 HANDS, INDIVIDUAL FINGERS ARROTROPHIC, & 13 CM. LONG & 3 TO 4 CM. IN DIAMETER. PROBABLY TRIPLOID. SEE PHOTO. CULTIVATED. (PLANTED AT COLLEGE & SENT TO U.S.)

7374 - "INAMBAK" (MEANS "JUMPING" IN VISAYAN) - PSEUDOSTEM SOLITARY, WITH MANY SMALL BASAL SUCKERS. PSEUDOSTEM YELLOWISH GREEN IN COLOR, 4.2 M. TALL & 30 CM. IN DIAMETER. BUNCH SUB-HORIZONTAL, WITH 9 HANDS, INDIVIDUAL FINGERS 12 CM. LONG & 3.5 CM. IN DIAMETER. MALE BRACTS YELLOW, SEVERAL LIFTING AT ONE TIME, AS IN M. BALBISIANA - SEE PHOTOS. (PLANTED AT COLLEGE & SENT TO U.S.)

FORESTED SLOPES OF MOUNT APO, NEAR BALAWAN, MAKILALA, COTABATO PROVINCE, MINDANAO - 1100 FT., NOV. 9, 1959. COLLECTED BY NADER VAKILI.

7375 - NO NAME KNOWN - STOOLING HABIT COMPACT, WITH FEW PSEUDOSTEMS 3.3 M. TALL & 30 CM. IN DIAMETER. PSEUDOSTEMS LIGHT GREEN, WITH LIGHT BROWN BLOTCHES. BUNCH HORIZONTAL, WITH 7 HANDS, INDIVIDUAL FINGERS PARTIALLY AGEOTROPHIC, 8 CM. LONG & 2.2 CM. IN DIAMETER. FRUITS PARTIALLY PARTHENOCARPIC, BUT SEEDED. SEE PHOTO. CULTIVATED??

(PLANTED AT COLLEGE & SENT TO U.S.)

X 7376 - "Binaktong" - Stooling habit compact, with a few pseudostems 8.6 m. tall & 12 cm. in diameter. Pseudostems green, with slight blackish markings. Bunch sub-horizontal with 4 hands. See photo, cultivated?? Looks like an AA type (Planted at college & sent to U.S.)

Cultivated area N.E. of Mount Apo, near Kadalian, Calinan, Davao Province, Mindanao - 2000 ft. Nov. 12, 1959. With Nader Vakili.

X 7377 - "Buyod" (means "pulling" in Visayan) - Stooling habit compact, with many pseudostems 3.5 m. tall & 25 cm. in diameter. Pseudostems green, with scattered black blotches. Bunch pendulous, with 9 hands, the male bud yellowish green in color. See photos. (Planted at college & sent to U.S.) An AAA type

~~73~~

Cultivated area N.E. of Mount Apo - near Pictan, Calinan, Davao Province, Mindanao - Nov. 12, 1959 - 2450 ft. - with Nader Vakili.

- lost = Silvery Matavia ~~See~~ photos

7378 - "Katchila" (corruption of "Castilla" in Visayan). Stooling habit compact, with many pseudostems 4.1 m. tall & 23 cm. in diameter at the base. Bunch pendulous, compact, with 6 hands of partially abortive fruits, which have a conspicuous silvery bloom. An ABB type. (Planted at college, but not sent to U.S.)

Forested hills north of Kawit, area northwest of Zamboanga, Mindanao, at about 1300 ft., along old logging road. Nov. 23, 1959. - with Nader Vakili.

7379 - *Musa acuminata* subsp. *banksii* - Stooling habit compact, with relatively few pseudostems about 6 m. tall & 30 cm. in diameter. Pseudostems brownish in color. Bunch horizontal, with a green male bud. 24 hands in bunch selected, the individual fingers ageotropic & 8 cm. in length & 2 cm. in diameter. Very similar in superficial appearance to No. 7340 from Mount Makiling. *Seeds only collected.* *See photo.* (Sent to Honduras)

Forested hills southeast of Isabela, Basilan Island, Zamboanga, Mindanao, on logging road at about 1000 ft. in elevation. Nov. 24, 1959 - with Nader Vakili.

7380 - *Musa acuminata* subsp. *banksii* - Stooling habit compact, with many very robust pseudostems 6.5 m. tall & 30 cm. in diameter. Pseudostems green, with dark brown blotches at the leaf base. Leaves very large & broad, and apparently free from disease. Bunch horizontal, with 24 hands and more than 500 fingers which are ageotropic and 11 cm. long and 2.5 cm. in diameter. A very superior and vigorous variant, probably the best wild form found to date, BETTER IN EVERY RESPECT THAN OUR NO. 7340, MALE BUD CONSISTENTLY GREEN. SEED AND RHIZOMES COLLECTED, SEE PHOTOS. (PLANTED AT COLLEGE & SENT TO U.S.) (SEEDS SENT TO HONDURAS) 2-BITS RE-COLLECTED FROM ORIGINAL MAT & SENT TO U.S. IN LATE APRIL, 1960.

BARRIO OF BASAGAN, CURUAN, ZAMBOANGA DEL SUR, MINDANAO, ON EASTERN COASTAL HIGHWAY NORTH OF ZAMBOANGA. ELEVATION ABOUT 50 FT. NOV. 25, 1959. WITH NADER VAKILI.

7381 - PITOGO - STOOLING HABIT COMPACT, WITH FEW LIGHT BROWN PSEUDOSTEMS 3.7 M. TALL & 20 CM. IN DIAMETER. BUNCH HORIZONTAL, WITH ABOUT 7 HANDS, THE INDIVIDUAL FRUITS FIG-LIKE AND ABOUT 5 CM LONG (INCLUDING THE PEDICEL) AND 3 CM. IN DIAMETER. RHIZOMES COLLECTED. SEE PHOTO. (PLANTED AT COLLEGE & SENT TO U.S.)

BUENAVISTA, ON EASTERN COASTAL ROAD NORTH OF ZAMBOANGA, MINDANAO, AT ABOUT 200 FT., NOV. 25, 1959, WITH NADER VAKILI.

7382 - TINDUC - STOOLING HABIT COMPACT, WITH RELATIVELY FEW PSEUDOSTEMS 2.2 M. TALL & 17 CM. IN DIAMETER, PSEUDOSTEM COLOR LIGHT GREEN, WITH LIGHT BROWN BLOTCHES. BUNCH PENDULOUS, WITH 3 HANDS OF LARGE HORSE-PLANTAIN TYPE FINGERS, WHICH INDIVIDUALLY MEASURE 27 CM. IN LENGTH & 5.5 CM. IN DIAMETER. MALE BUD COMMONLY ABSENT, BUT PRODUCED ON RARE OCCASIONS. RHIZOMES. SEE PHOTO. - FOLIAGE HAS A "DIPLOID" LOOK. (NOT SENT TO U.S.)

AAB??

Liloy, Zamboanga del Norte, near Sindangan Point, sea level. Nov. 26, 1959 - with W.E. Klippert & Nader Vakili.

× 7383 - "Lacatan" - Stooling habit compact, with many pseudostems 2.7 m. in height & 22 cm. in diameter. Pseudostem green, with light brown blotches at leaf base. Bunch pendulous, with 6 hands, the individual fingers ageotropic and 12 cm. in length & 3.5 cm. in diameter. Leaves erect, and with a definite "diploid" look. Rhizomes collected. See photo. (Planted at college & sent to U.S.)

Barrio Tambanan, Kabasalan, on Sibuguey Bay, Zamboanga del Sur, Mindanao, at about 200 ft. - Nov. 26, 1959 - with W.E. Klippert & Nader Vakili.

× 7384 Pastilan - Stooling habit compact, with many pseudostems 3.5 m. in height and 20 cm. in diameter. Pseudostem color purplish, with dark brown blotches. Bunch pendulous, with a dichotomous peduncle, the point of division varying from plant to plant, but always with 2 male buds. Individual fingers 15 cm. long and 3 cm. in diameter. Leaves erect. A mutant form of Bungulan. Rhizomes collected, in garden of Capt. & Mrs. Chanco. See photo - (Planted at college & sent to U.S.)

OHANCO

College of Agriculture, Los Baños, Laguna Province - 150 ft. Dec. 14, 1959 - with Davis J. Cloward.

7385 - Purikit - Mis-named - this is Saroesoe - Stooling habit compact, with few dark reddish purple pseudostems 3.4 tall & 16 cm. in diameter. Bunch horizontal, with 5 very compactly arranged hands, the individual fingers splayed & 9 cm. long & 3.5 cm. in diameter. Male bud pale purple, with yellowish green streaks. Transferred from abaca test plot to the college collection. Looks like an AA diploid. See photo. - Fruits parthenocarpic. (Not sent to U.S.)

7386 - Buoy - Stooling habit compact, with few pale yellowish green pseudostems 1.5 m. tall & 9.5 cm. in diameter. Bunch horizontal, with 1 hand, the individual fingers splayed & 9 cm. long & 3 cm. in diameter. Male bud pale yellow, with pale purple margins. Transferred from abaca test plot to the college collection. Appears to be an AA type parthenocarpic diploid. See photo. (Not sent to U.S.)

7387 - Galamay Senora (?) - Stooling habit compact, with many brownish black pseudostems 5.2 m. tall & 37 cm. in diameter. Bunch pendulous, with 10 ageotropic hands, the individual fingers cylindric & 16 cm. long & 3.75 cm. in diameter. Male bud rose pink, slightly paler in color at base. New leaf green. Looks like an AAA, or AAB type. Transferred to college plot from coffee plantation.

Compare with 7533

7387 - SEE PHOTO. (NOT SENT TO U.S.)

7388 - BAKAMAY SENORA (?) - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS 5 M. TALL & 37 CM. IN DIAMETER. PSEUDOSTEMS GREEN, CONSPICUOUSLY MARKED WITH BLACK. BUNCH PENDULOUS, WITH 13 ACROTROPIC HANDS, THE INDIVIDUAL FINGERS 12 CM. LONG & 3 CM. IN DIAMETER, IN IMMATURE FRUIT. MALE BUD DARK PURPLE. NEW LEAF PURPLISH. TRANSFERRED FROM COFFEE PLANTATION TO CORREAR PLOT. LOOKS LIKE AN AAA OR AAB TYPE. SEE PHOTO - (NOT SENT TO U.S.)

7389 - LATUNDAN - DISCARDED BECAUSE OF DISEASE.

7390 - SABANG CURRAN - A BALONKAWE-TYPE HORSE PLANTAIN, WITHOUT A MALE BUD, BUT WITH VERY BLUNT FINGERS. SEE PHOTO. LOOKS LIKE AN AAB TYPE, TRANSFERRED FROM NEAR THE COFFEE PLANTATION TO THE CORREAR PLOT. SAME AS X-5. - SEE PHOTO. - (NOT SENT TO U.S.)

VILLAGE OF SABANGAN, IN ROCKY GORGE ABOVE BONTOK, ON CHICO RIVER, MOUNTAIN PROVINCE, LUZON, AT ABOUT 3000 FT. - DEC. 21, 1959 - WITH DAVIS V. CLOWARD.

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x 7391 - TOMOC - STOOLING HABIT COMPACT WITH FEW TO MANY PSEUDOSTEMS 2.5 M. TALL & 35 CM. IN DIAM. PSEUDOSTEMS BLACKISH (GREEN WITH PROFUSE BLACK

SPOTS. BUNCH PENDULOUS, WITH 12 HANDS, THE INDIVIDUAL FINGERS 24 CM. LONG & 5 CM. IN DIAMETER. RIPE FRUITS YELLOW, WITH MANY SMALL BROWNISH FLECKS. PULP A PALE CREAM COLOR, FIRM, RATHER DRY, NOT VERY SWEET OR AROMATIC, NEARLY IDENTICAL WITH APPEARANCE & QUALITY OF GROS MICHEL. MALE BUD REDDISH PURPLE. A VERY VIGOROUS & SUPERIOR FORM OF GIANT CAVENDISH, VERY COMMON IN THE BAGUIO & BONTOK MARKETS. WOULD BE WORTH TESTING FOR SHIPPING & SHELF LIFE QUALITIES, SINCE IT HAS TO UNDERGO QUITE A BIT OF ROUGH TREATMENT HERE TO GET TO MARKET & IS OF VERY HIGH QUALITY. COULD BE USED AS AN INTERIM CROP IN HONDURAS, UNTIL SOMETHING BETTER WAS AVAILABLE, - AN AAA TYPE. (RHIZOMES PLANTED AT [illegible] & SENT TO U.S.)

WOODCARVING BARRIO OF O-ONG, ON ROAD TO LAGAWE, BEYOND BANAUE, IFUGAO DISTRICT, MOUNTAIN PROVINCE, LUZON, AT ABOUT 5000 FT, DEC. 22, 1959 - WITH DAVIS V. CLOWARD.

ALL DEAD MAY 14, 1960

7392 - BUUY (BU-UE) - STOOLING HABIT COMPACT, WITH FEW NEARLY BLACK PSEUDOSTEMS 3.5 M. TALL & 22 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 9 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND ABOUT 7.5 CM. LONG AND 2.5 CM. IN DIAMETER. MALE BUD A GLOSSY, DARK BLACKISH PURPLE, WITH A STRONGLY MARKED AREA OF OVERLAPPING BRACTS AT THE TIP. A DEFINITELY WILD ABACA, GROWING IN DEEP, FORESTED RAVINES AND ON

Steep hillsides in inaccessible places from here to near Baguio. Reported by the local Igorots to have been used in former times for the manufacture of clothing. *Musa textilis*. Planted in college collection. (Not sent to U.S.)

Forested ravines, on steep slopes above the rice terrace zone, near the town of Sabangan, Bontok, Mountain Province, Luzon, at about 4000 ft. Dec. 23, 1959 - with Davis J. Cloward.

– All plants at college dead May 6, 1960

7393- *Saba ti Bakis* (Monkey Banana, Bontok dialect) - Stooling habit compact, with few dark blackish purple pseudostems 3 m. tall & 14 cm. in diameter. Bunch horizontal, with 8 hands, the individual fingers 12 cm. long and 3 cm. in diameter. Skin color yellow. Male bud pale yellow. Not common. An AA type (*Musa acuminata Banksii*). Rhizomes planted at college. Seeds sent to Honduras.

Steep hillsides near Sablan, on highway from Baguio to San Fernando - Mountain Province, Luzon, at about 3000 ft. - Dec. 24, 1959 - with Davis J. Cloward.

7394- *Balayang* & *Balayan* - Stooling habit compact, with many green pseudostems 4.5 m. tall & 25 cm. in diameter. Bunch horizontal, with 6 hands, the individual angulate fruits very seedy & said to be used for making vinegar. Male bracts dark purple on the outer surface, the glossy rose red inner surface colored to the base. Several bracts are commonly lifted at once. Looks like an ~~BBB~~ BB type Balbisiana, which is regarded to be wild, but is here either cultivated or protected. (Planted at college, but not sent to U.S.)

7395 - White Morado - Stooling habit compact, with many vigorous pseudostems 4.7 m. tall & 37 cm. in diameter. Pseudostems purple, aging blackish. Bunch pendulous, with 6 hands, the individual fingers 18 cm. long and 4.75 cm. in diameter. Foliage green, without any purple. Fruits green, when immature, & reported to be yellow when ripe, identical in bunch form & finger shape with the red form. Male bud dark purple. Looks like an AAA (or AA?) type (foliage sometimes strongly ascending). (Planted at college, but not sent to U.S.), looks like a mutant of the common red)

7396 - Red Morado - Stooling habit compact, with many pseudostems 4.5 m. tall & 32 cm. in diameter. Pseudostems purplish, aging nearly black. Bunch pendulous, with 7 hands, the individual fingers 18 cm. long and 5 cm. in diameter. Foliage with a pinkish purple midrib and fruits dark red, when mature. Male bud dark purple. An AAA, or possibly AA type, of very vigorous habit. (Planted at college, but not sent to U.S.)

7397 - DICOSTA (GREEN) - STOOLING HABIT COMPACT, WITH RELATIVELY FEW PSEUDOSTEMS 4 M. IN HEIGHT & 28 CM. IN DIAMETER. PSEUDOSTEMS GREEN, TENDING TO BECOME BLACKISH WITH AGE. BUNCH PENDULOUS, WITH 5 HANDS, THE INDIVIDUAL FINGERS GREEN WHEN IMMATURE AND 15 CM. LONG & 7.5 CM. IN DIAMETER. FRUITS REPORTED TO BE YELLOW WHEN RIPE. MALE BUD DULL PURPLE - 1 BRACT LIFTING AT A GIVEN TIME. LOOKS LIKE AN ABB TYPE. (PLANTED AT COLLEGE, BUT NOT SENT TO U.S.)

7398 - DICOSTA (SILVERY) - STOOLING HABIT COMPACT, WITH FEW GREEN PSEUDOSTEMS 4 M. TALL & 27 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 5 HANDS, THE INDIVIDUAL FINGERS CONSPICUOUSLY SILVERY WHEN IMMATURE AND 18 CM. LONG AND 7 CM. IN DIAMETER. MALE BUD DULL PURPLE, 2 BRACTS OFTEN LIFTING SIMULTANEOUSLY. LOOKS LIKE AN ABB TYPE. (PLANTED AT COLLEGE, BUT NOT SENT TO U.S.)

7399 - DIPIG - OR DIPPIG - STOOLING HABIT COMPACT, WITH MANY VIGOROUS PSEUDOSTEMS THAT ARE GREEN IN COLOR AND 6.5 M. TALL & 35 CM. IN DIAMETER. BUNCH VERY COMPACT, PENDULOUS, WITH 9 HANDS, THE INDIVIDUAL FINGERS SABA-LIKE IN FORM, BUT SMALLER. FRUITS YELLOW WHEN RIPE, MALE BUD DULL PURPLE, 2 BRACTS COMMONLY LIFTING SIMULTANEOUSLY, PROBABLY A BBB, OR POSSIBLY BB TYPE. (SOME PLANTS HAVE MARKEDLY ERECT LEAVES.) A SMALL-FRUITED SABA. (PLANTED AT COLLEGE, BUT NOT SENT TO U.S.)

7400 - Bungawisan - Stooling habit compact, with few pseudostems 3.5 m. tall & 25 cm. in diameter. Pseudostems green, flushed pinkish purple. Bunch pendulous, with 6 hands, the individual fingers 25 cm. long & 7 cm. in diameter. Fruits reported to be yellow when ripe, and cooked to be eaten. Male bud rather old, but apparently dark purple, the old bracts persistent, in a dark, shaggy mass. An AAB type horse plantain, related to Balankawe. A weak grower. (Planted at college, but not sent to U.S.)

X 7401 - Lacatan - Stooling habit compact, with many very vigorous pseudostems 7 m. tall & 40 cm. in diameter. Pseudostems green, with conspicuous blackish blotches. Bunch pendulous, with 12 hands, the individual fingers 21 cm. long and 4.5 cm. in diameter. Skin yellow when ripe. Male bud dark purple. An AA diploid, of very strong growth habit and large fruit size. Very common in the Baguio market, where hands with up to 35 fingers have been seen. (Planted at college & sent to U.S.)

Road to Asin Hot Spring, near Baguio, Mountain Province, Luzon, at about 2500 ft. Dec. 26, 1959 - with Davis V. Cloward.

7402 - Katil, or Kitil - Stooling habit compact, with few pseudostems 2 m. in height & 12 cm. in diameter. Pseudostems green. Bunch horizontal and very compact, with 5 hands, the individual fingers very short (6.5 cm. long & 3.3 cm. in diam.) and pointed. Skin reported to be greenish yellow when ripe. Bracts reddish purple. An AA type diploid, of poor vigor, bunch & finger form. (Planted at College, but not sent to U.S.)

Mount Kimalubong, near Burgos, La Union Province, Luzon, at about 2000 ft. Dec. 26, 1959 - collected by Ramon Valmayor.

7403 - Darayan - Stooling habit compact, with few pseudostems 3.5 m. tall & 25 cm. in diameter. Pseudostems green with blackish blotches. Bunch semi-pendulous, with 8 hands, the individual fingers 18 cm. long and 3.8 cm. in diameter. Fruits yellow when ripe, usually cooked. Male bracts not seen. AAB?
Planted at College, but not sent to U.S.

College of Forestry Nursery - slopes of Mount Makiling, near Los Baños, Laguna, Luzon, at about 300 ft. Jan. 4, 1960 - with Davis J. Cloward.

7404- Virgin (Ensete glaucum) - Pseudostem solitary, about 3 m. tall & 32 cm. in diameter. Bunch pendulous, with a few very compactly arranged hands of short, yellow fruits, largely concealed by the persistent bracts. Fruits with some pulp, but very seedy and not eaten. Seeds sent to Honduras.

Barrio Azucena, Sipocot, Camarines Sur, Luzon, on rolling hillsides at about 300 ft. Jan. 5, 1960 - with Davis J. Cloward.

— All college specimens dead May 6, 1960

7405- Kinastilla (?) - Stooling habit compact, with few pseudostems. Plants badly damaged by recent typhoon. Bunch pendulous, with about 5 hands, fruits silvery when immature, and reported to be yellow when ripe. Looks very much like the silvery form of Dacosta from Baguio and the so-called Katchila from Davao. Probably an ABB type, or possibly a BBB type. This name is also used in the Naga market for a blunt, yellow-fruited green-red type. May also be the same as the "Mestizo" from Zamboanga and "Calibong puti" from the Sorsogon area.

Planted at college, but not sent to UCS.

7406 - Morong Princesa - Stooling habit compact, with a few green pseudostems 1.8 m. tall & 15 cm. in diameter. Plants blown flat by recent typhoon, but bunch apparently horizontal, with about 4 hands, the individual fingers 15 cm. long and 2.5 cm. in diameter. Fruits reported to be yellow when ripe, and taper to a long, slender terminal beak which is easily broken, plants have the look of an AA type diploid. - See photo. Planted at College & sent to U.S.

7407 - Gloria (?) - Stooling habit compact, with many rose purple pseudostems 4 meters in height and 25 cm. in diameter. Bunch pendulous, with 9 hands of yellow, splayed fingers. Plants very badly damaged by recent typhoon, but have the look of an AAB, or possibly AAA triploid. Common in the Naga market. Planted at College, but not sent to U.S.

7408 - Bulo (or Buloh) - Stooling habit compact, with relatively few green pseudostems 1.8 m. in height and 15 cm. in diameter. Bunch horizontal, with 2-5 hands of stout, Pacol-like splayed fingers that are full of seeds. Bracts reddish purple, 2 or more lifting at once. Common along the RR. right of way from somewhat beyond Lucena to Sipocot, and northward along the highway into Camarines Norte in semi-cultivated areas but never in the forest, where it is replaced by Alinsanay, a putative hybrid between M. textilis & M. acuminata banksii. Has the look of a diploid, and would

APPEAR TO BE A DWARF BB RACE OF MUSA BALBISIANA. PLANTS VERY WIND RESISTANT, AND OFTEN THE ONLY MUSA LEFT STANDING IN BANANA AREAS THAT HAVE OTHERWISE BEEN BLOWN FLAT BY THE RECENT TYPHOON. PLANTED AT COLLEGE & SENT TO U.S.

7409 - BULO (OR BULOH) - AS ABOVE, BUT A SOMEWHAT MORE VIGOROUS FORM, WITH LARGER BUNCHES OF FRUIT. SEEDS ONLY. SEE PHOTO. IMMATURE NOT SHIPPED.

SOUTHWESTERN SLOPES OF MOUNT ISAROG, CAMARINES SUR, LUZON, AT ABOUT 1500 FT. JAN. 9, 1960 - WITH DAVIS J. CLOWARD.

7410 - GLORIA (?) - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS 5 M. IN HEIGHT AND 36 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 7 HANDS OF YELLOW, CYLINDRIC FINGERS. PLANTS BADLY DAMAGED BY RECENT TYPHOON. APPARENTLY A GREEN-RED TYPE, SIMILAR TO, IF NOT IDENTICAL WITH THAT KNOWN ELSEWHERE AS YELLOW MORADO. FRUITS FAIRLY COMMON IN THE NAGA MARKET. PROBABLY AN AAA TYPE. PLANTED AT COLLEGE, BUT NOT SENT TO U.S.

7411 - INARNIBAL - STOOLING HABIT COMPACT, WITH FEW REDDISH PURPLE PSEUDOSTEMS ABOUT 2 M. IN HEIGHT AND 18 CM. IN DIAMETER. NEW LEAVES REDDISH PURPLE. FRUITS NOT SEEN, & PLANTS BADLY DAMAGED BY RECENT TYPHOON, BUT REPORTED TO HAVE BEEN ACQUIRED FROM A GROUP OF NEGRITOS WHO FORMERLY OWNED THE LAND. PLANTED AT COLLEGE & SENT TO U.S.

AA?

x 7412 - MORONG PRINCESA (?) - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS, THE PLANTS BADLY DAMAGED BY THE RECENT TYPHOON. FINGERS DESCRIBED AS BEING VERY LONG AND SLENDER, AND TO HAVE EXCEPTIONAL KEEPING QUALITIES, LASTING IN GOOD CONDITION FOR UP TO THREE WEEKS. VARIETY ACQUIRED FROM NEGRITOS WHO FORMERLY OWNED THE LAND. PLANTED AT COLLEGE & SENT TO U.S.

AA?

TOWN OF CURRY (CURI ?) NEAR PILI - SOUTHWESTERN SLOPES OF MOUNT ISAROG, CAMARINES SUR - LUZON - JAN. 9, 1960 - WITH DAVIS J. CLOWARD.

7413 - MANANG - STOOLING HABIT COMPACT, WITH RELATIVELY FEW PSEUDOSTEMS 4.5 M. TALL & 30 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 9 HANDS, THE FRUITS REPORTED TO BE YELLOW WHEN RIPE. PLANTS BADLY DAMAGED BY RECENT TYPHOON. PLOIDY UNKNOWN. PLANTED AT COLLEGE, BUT NOT SENT TO U.S.

AAA?

PRIMARY FOREST NEAR NAPOLIDAN, SIPOCOT, CAMARINES SUR, LUZON, ON ROAD TO DAET. JAN. 10, 1960 - WITH DAVIS J. CLOWARD.

7414 - ALINSANAY - STOOLING HABIT COMPACT, WITH MANY DARK REDDISH PURPLE PSEUDOSTEMS 3.2 M. TALL & 28 CM. IN DIAMETER. BUNCH HORIZONTAL, WITH 9 HANDS, THE INDIVIDUAL FINGERS 13 CM. LONG AND 2.5 CM. IN DIAMETER. TERMINAL BUD TYPICAL OF ABACA, IN ITS LIGHTER COLORED FORM, WITH GLOSSY GREENISH YELLOW

BRACTS, WHICH ARE NARROWLY MARGINED PURPLE ON THE OUTER SURFACE AND DEEP ROSE WITHIN. FRUITS "BEAKED" AT THE APEX, AND VERY SIMILAR IN ASPECT TO THE FORMS OF *MUSA ACUMINATA BANKSII* FOUND ON THE SLOPES OF MOUNT APO, IN MINDANAO, A PUTATIVE NATURAL HYBRID BETWEEN *MUSA TEXTILIS* AND *MUSA ACUMINATA* BUT NOT VARIABLE, AND FORMING A UNIFORM POPULATION THAT ACTS LIKE A WILD SPECIES. IT IS INTERESTING, AND POSSIBLY SIGNIFICANT THAT NEITHER OF THE PRESUMED PARENTS ARE PRESENT IN THE AREA. OF UNCERTAIN PLOIDY. SEE PHOTOS. SENT TO THE U.S. & PLANTED AT COLLEGE. SEEDS SENT TO HONDURAS. SEEN ONLY IN THE FOREST PRESERVE, WHERE IT REPLACES THE COMMON WILD *M. BALBISIANA* FOUND ON ABANDONED LAND & ROADSIDES IN CULTIVATED AREAS.

ROAD TO MANGUROG, DAET, CAMARINES NORTE, LUZON, AT ABOUT 150 FT. - JAN. 10, 1960 - WITH DAVIS V. CLAVANO.

7415 - ZAMBOANGUEÑA - PSEUDOSTEM APPARENTLY SOLITARY, IN THE TWO SPECIMENS SEEN, GREEN IN COLOR, AND 1.8 M. TALL & 20 CM IN DIAMETER. BUNCH HORIZONTAL, WITH 4 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 12 CM. LONG AND 3 CM. IN DIAMETER. MALE BRACTS DULL PINKISH PURPLE. FRUITS OCCASIONAL IN DAET MARKET. PLANTS BADLY DAMAGED BY THE RECENT TYPHOON. PLANTED AT COLLEGE, BUT NOT SENT TO THE U.S. - SEE PHOTO.

AA ?

Vicinity of Daet, Camarines Norte, Luzon, at about 300 ft. - Jan. 11, 1960 - with Davis V. Clowaro.

7416 - Saroc soc - Stooling habit compact, with a few dark reddish purple pseudostems 3.8 m. tall & 32 cm. in diameter. Hands of fruit seen in the Daet market, which were compact, & probably shaped, with curiously obovoid fingers 12 cm. long and 3 cm. in diameter. Color yellow when ripe. Plants badly damaged by typhoon & taken on hearsay from farm of Provincial Agriculturist. Fruits reported to be cooked. Planted at college, but not sent to U.S.

AAB?

Langa, Basud, Daet, Camarines Norte, Luzon, at about 300 ft. - Jan. 11, 1960 - with Davis V. Clowaro

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7417 - Galuac - Pseudostem solitary, mostly green, about 4 m. in height & 35 cm. in diameter. Bunch pendulous, with about 10 hands, the fingers ageotropic, and 16 cm. long and 3.5 cm. in diameter. Fruits reported to be yellow when ripe. Fruits reported to be eaten either fresh or cooked, and that the immature flesh is grated & boiled in the skins. Leaves have an erect, diploid look. Plants damaged by typhoon. See photo. Planted at college and sent to the U.S.

AAA?

7418 - MORONG PRINCIPE - STOOLING HABIT COMPACT, WITH A FEW DARK REDDISH PURPLE PSEUDOSTEMS, THE PLANTS BADLY DAMAGED BY THE RECENT TYPHOON AND CUT BACK TO YOUNG SUCKERS. FRUITS REPORTED TO BE RED, BUT LONGER & THINNER THAN MORADO. PLANTED AT CORRADE, BUT NOT SENT TO THE U.S.

AAA?

7419 - BUOY - STOOLING HABIT COMPACT, WITH A FEW PSEUDOSTEMS 1.5 M TALL & 12 CM. IN DIAMETER. BUNCH HORIZONTAL, WITH 3 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 9 CM. LONG AND 2.5 CM. IN DIAMETER. FRUITS REPORTED TO BE YELLOW WHEN RIPE. MALE BUD YELLOWISH. A PARTHENOCARPIC AA DIPLOID. PULP ORANGE IN COLOR. PLANTED AT CORRADE, BUT NOT SENT TO THE U.S.

IRIGA, CAMARINES SUR, LUZON, AT ABOUT 100 FT. - JAN. 13, 1960 - WITH DAVID V. CROWARD.

7420 - HAWAII (?) - STOOLING HABIT COMPACT, WITH A FEW PSEUDOSTEMS 2 M. IN HEIGHT & 30 CM. IN DIAMETER. BUNCH PENDULOUS WITH 8 HANDS, THE INDIVIDUAL FINGERS AGEOTROPIC TO SOMEWHAT SPLAYED AND 25 CM. LONG AND 3.5 CM. IN DIAMETER. FRUITS YELLOW WHEN RIPE. PLANTS WITHOUT LEAVES, DUE TO THE TYPHOON, BUT HAS LOOK OF AN AAA TYPE

Giant Cavendish, possibly identical with the yellow form of Bungulan, or Tumoc. See photo — Planted at College, but not sent to the U.S.

OAS, ALBAY, LUZON - AT ABOUT 100 FT. - JAN. 13, 1960 - WITH DAVIS V. CROWARD.

7421 - MATAVIA (?) - Stooling habit compact, with a few green pseudostems 4.5 m. in height & 25 cm. in diameter. Bunch pendulous, with 5 hands, the fingers ageotropic and 18 cm. long and 3.2 cm. in diameter. Fruits green when immature but reported to be red when ripe. Plants badly damaged by typhoon, but with a diploid look. Fingers abruptly truncate at the apex. - See photo. - Planted at College & sent to U.S.

AAB?

BARRIO CAPUY - SORSOGON, LUZON, AT ABOUT 100 FT., JAN. 14, 1960 - WITH DAVIS V. CROWARD.

7422 - SABANG CASTILA - Stooling habit compact, with many green pseudostems 5 m. in height & 30 cm. in diameter. Bunch pendulous, with compact, ageotropic hands, the individual fingers 22 cm. long and 7 cm. in diameter, the fruit

REPORTED TO BE YELLOW WHEN RIPE. MALE BUD NOT SEEN. HAS THE LOOK OF AN ABB OR AAB TYPE, RATHER LIKE A LARGE FRUITED MATAVIA OR POSSIBLY LAKNAU. - SEE PHOTO - PLANTED AT COLLEGE, BUT NOT SENT TO U.S.

QUEZON PROVINCE,
SOUTHERN LUZON, EXACT LOCALITY & ELEVATION UNKNOWN - GIFT OF DR. MANSA, BOTANIST, FORESTRY DEPARTMENT - COLLEGE OF AGRICULTURE.

7423 - TINDUC - A GIANT HORSE PLANTAIN. PLANTED AT COLLEGE, BUT NOT SENT TO THE U.S. - AAB

VICINITY OF SAN MARIANO, ISABELA PROVINCE, LUZON, AT ABOUT 500 FT. - JAN. 27, 1960 - WITH DAVIS V. CLOWARD.

7424 - BALAYAN - A WILD, SEEDED FORM OF MUSA BALBISIANA, VERY COMMON IN SOME PLACES ALONG THE ROAD. STOOLING HABIT COMPACT, WITH MANY GREEN PSEUDOSTEMS 5 M. IN HEIGHT & 30 CM. IN DIAMETER. BUNCH HORIZONTAL, WITH ABOUT 10 HANDS OF YELLOW FRUITS, THE INDIVIDUAL FINGERS ABOUT 15 CM. LONG AND 6.5 CM. IN DIAMETER. STRIPS OF PSEUDOSTEM WOVEN INTO SQUARES OF MATTING USED TO PACK TOBACCO FOR EXPORT. SEE PHOTOS.
SEED ONLY COLLECTED AND SENT TO HONDURAS.

BARRIO ANGASIAN, NEAR SAN ANTONIO FARM OF THE CIA. TABACALERA, ILAGAN, ISABELA PROVINCE, LUZON, AT ABOUT 300 FT. - WITH DAVIS J. CROWARD. - JAN. 28, 1960

7425- GLORIA (?) - STOOLING HABIT COMPACT, WITH MANY PSEUDO-STEMS 5.5 M. IN HEIGHT AND 32 CM. IN DIAMETER, THE COLOR GREEN, FLUSHED WITH PINKISH PURPLE. BUNCH PENDULOUS, WITH 9 HANDS, THE INDIVIDUAL FINGERS 16 CM. LONG AND 5 CM. IN DIAMETER. FRUITS YELLOW WHEN RIPE. LOOKS LIKE A VERY VIGOROUS ABB TYPE. PLANTED AT COLLEGE, BUT NOT SENT TO U.S.

7426- INMASUCAR - (LIKE SUGAR) - STOOLING HABIT COMPACT, WITH MANY VERY VIGOROUS PSEUDOSTEMS 5.5 M. TALL & 34 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 8 HANDS, THE INDIVIDUAL FINGERS 14 CM. LONG AND 3 CM. IN DIAMETER. MALE BUD DARK PURPLE, FRUITS YELLOW WHEN RIPE. MIDRIB OF YOUNG LEAF PINKISH, & THE MATURE LEAVES ERECT, AND WITH A DIPLOID "LOOK". EITHER AN AA OR AAB TYPE. A GALAMAY-SENORA, VERY LIKE THAT COLLECTED NEAR THE COFFEE PLANTATION AT THE COLLEGE OF AGRICULTURE. PLANTED AT THE COLLEGE AND SENT TO THE U.S.

Barrio San Jose Norte, Mallig, Isabela Province, Luzon, at about 300 ft. - Jan. 29, 1960 - with Davis J. Cloward.

7427 - Gubao - Stooling habit compact, with many green pseudostems 4.5 m. tall & 28 cm. in diameter. Bunch pendulous, with 5 hands, the individual fingers 16 cm. long and 3.5 cm. in diameter. Fruits reported to be yellow when ripe. Male bracts dark purple, with a powdery bloom. A Saba-type plantain, rather like Matavia in general appearance. Plants obtained from Kalinga group, who formerly owned the land. Looks like an ABB (BBB?) type. Planted at college, but not sent to the U.S.

Barrio Malabo, San Mariano, Isabela Province, Luzon, at about 500 ft. - Jan. 31, 1960 - with Davis J. Cloward.

7428 - Darayan - Stooling habit compact, with few green pseudostems 2 m. in height and 24 cm. in diameter. Bunch pendulous, with 5 hands, the individual fingers 20 cm. long and 3.5 cm. in diameter, when still immature. Fruits reported to be yellow when ripe & to be transparent (translucent?) when cooked, as they usually are before being eaten. Looks like an ABB type plantain - Planted at college, but not sent to the U.S.

7429- Afafi (means fire, in Ibanag, or like fire) - Stooling habit compact, with few reddish pseudostems 2 m. in height and 15 cm. in diameter. Bunch not seen, but reported to be pendulous. Fruits seen in market very like Morado, but about 30% smaller and light red or pale orange in color. An AAA type, not definitely distinct from Morado. Planted at college, but not sent to the U.S.

Palaui Island, north of Port San Vicente, Cagayan Province, Luzon, at about 50 ft. - Feb. 2, 1960 - with Davis J. Cloward.

7430- Amorosa - Stooling habit compact, with many slender pseudostems that are green, blotched reddish purple, and about 2 m. in height and 16 cm. in diameter. Bunch horizontal, with 3 hands, the individual fingers 6 cm. long and 2.5 cm. in diameter. Fruits yellow when ripe. Leaf petioles flushed rose red, and quite conspicuous from a distance. Looks like an Inarnibal-type AA diploid lady finger, with indications of Fusarium infection, but may only be a degenerate form of Latundan, since that variety is also called Amorosa in the area. Planted at college, but not sent to the U.S.

x 7431- GUYUD (A YELLOW-FRUITED BUNGULAN) - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS 4 M. IN HEIGHT AND 30 CM. IN DIAMETER. PSEUDOSTEMS MOSTLY GREEN, WITH BLACKISH BLOTCHES. FRUITS NOT SEEN, BUT REPORTED TO TURN YELLOW WHEN RIPE. LOOKS LIKE AN AAA TYPE. PLANTED AT COLLEGE AND SENT TO THE U.S.

7432- SAN JUAN - STOOLING HABIT COMPACT, WITH MANY, MOSTLY GREEN PSEUDOSTEMS 4.5 M. TALL & 28 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 4 HANDS, THE INDIVIDUAL FINGERS 18 CM. LONG AND 3.5 CM. IN DIAMETER, AND SILVERY IN COLOR WHEN IMMATURE, AND REPORTED TO BE YELLOW WHEN RIPE. MALE BRACTS PURPLE, ONE LIFTING AT A TIME. LOOKS VERY MUCH LIKE KATALI EXCEPTING FOR THE SILVERY BLOOM AND RELATIVELY SPLAYED FINGERS. PROBABLY AN ABB TYPE. PLANTED AT COLLEGE & SENT TO U.S. (UAKILI REQUEST).

LUNA EXPERIMENT STATION, APAYAO, MOUNTAIN PROVINCE, LUZON, AT ABOUT 50 FT. - FEB. 3, 1960 - WITH DAVIS J. CLOWARD.

x 7433- RIPPING (BENENDITO) - STOOLING HABIT COMPACT, WITH MANY VERY VIGOROUS PSEUDOSTEMS 5.5 M. TALL & 30 CM. IN DIAMETER, WHICH ARE GREEN, HEAVILY BLOTCHED BLACKISH IN COLOR. BUNCH SEMI-PENDULOUS, WITH 8 HANDS, THE INDIVIDUAL FINGERS ABOUT 14 CM. LONG AND 3.5 CM. IN DIAMETER, BUT FUSED INTO SOLID BLOCKS. BRACTS PURPLE, SEVERAL LIFTING AT ONCE. POSSIBLY A BB, OR BBB TYPE (ABB?) - ALL MATERIAL SENT TO U.S. TO REPLACE 7364.

7434 - GADDATU - Stooling habit compact, with many pseudostems 4 m. in height and 28 cm. in diameter, mostly green in color, but sometimes with blackish blotches. Bunch pendulous, with 7 hands, the individual fingers 18 cm. long and 5 cm. in diameter. Fruits yellow, & reported to be cooked before being eaten. Male bracts purple, with a powdery bloom. Looks very much like Matavia. Probably an ABB type. Planted at college, but not sent to the U.S.

7435 - CUHAMAN - Stooling habit compact, with few green pseudostems 2 m. in height and 17 cm. in diameter. Bunch reported to be pendulous, with about 5 hands, the fruit said to be yellowish when ripe, and to be cooked before being eaten. Has the look of a dwarf AAA type & in consequence unusual in having fruits that must be cooked, if the report is true. Planted at college, but not sent to the U.S

7436 - BALASANE - Stooling habit compact, with few reddish purple pseudostems 4 m. in height and 28 cm. in diameter. Bunch pendulous, with 9 hands, the individual fingers 15 cm. long and 3.2 cm. in diameter. Male bracts dark purple. Leaf midrib rose red, & leaves very erect. Has the look of a Lacatan (AA) type. Planted at college, and sent to the U.S.

7437- TARAKITOK- STOOLING HABIT COMPACT, WITH FEW GREEN PSEUDOSTEMS 1.5 M. IN HEIGHT AND 15 CM. IN DIAMETER. BUNCH NOT SEEN, BUT REPORTED TO BE HORIZONTAL, WITH ABOUT 5 HANDS OF YELLOW FRUITS WHICH ARE COOKED BEFORE BEING EATEN. HAS THE LOOK OF AN AA TYPE. PLANTED AT COLLEGE, BUT NOT SENT TO U.S.

7438-43 - PHOTOGRAPHS - NO MATERIAL COLLECTED.

COFFEE PLANTATION, COLLEGE OF AGRICULTURE - LOS BAÑOS - LAGUNA, LUZON - FEB. 19, 1960 - WITH DAVIS J. CLOWARD.

OUR MAID SAYS THIS IS A BAD WORD!

7444- LINANTAKAN - STOOLING HABIT COMPACT, WITH A FEW REDDISH BROWN PSEUDOSTEMS ABOUT 2 M. TALL & 16 CM. IN DIAMETER. FRUITS NOT SEEN, REPORTED TO HAVE COME FROM CAVITE. HAS THE LOOK OF AN AA TYPE. PLANTED AT COLLEGE BUT NOT SENT TO THE U.S.

CABUYAO, LAGUNA, LUZON, AT ABOUT SEA LEVEL, FEB. 23, 1960 WITH DAVIS N. CLOWARD.

7445- TERNATE - STOOLING HABIT COMPACT, WITH MANY GREEN PSEUDOSTEMS 4 M. TALL & 28 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 8 HANDS, THE INDIVIDUAL FINGERS ABOUT 15 CM. LONG AND 4 CM. IN DIAMETER. BRACTS RICH PURPLE, 3 LIFTING SIMULTANEOUSLY, CONSPICUOUS BECAUSE OF THE MASS OF BLACKISH, PERSISTENT MALE FLOWERS AND THE BALBISIANA-LIKE BRACTS. PROBABLY AN ABB TYPE. PLANTED AT COLLEGE BUT NOT SENT TO THE U.S.

X 7446 - Inarnibal (?) - Stooling habit compact, with a few pseudostems 3 m. tall & 18 cm in diameter. Pseudostems green, with blackish blotches. Bunch pendulous, with 11 hands, the individual fingers 14 cm. long and 2.8 cm. in diameter. Male bract reddish purple, rather like that of Katali. Midrib of new leaf pinkish & entire surface often with a pinkish purple bloom. Fruits yellow when ripe, and with a better-than-average texture and aromatic flavor. Reported to occasionally have a few seeds. Bunch unusually large and compact, for an AA type. Looks very much like Quisumbing's illustration (plate 27) of Dinalaga. . Planted at college and sent to the U.S.

X 7447 - Latundan - Stooling habit compact, with many pseudostems 3.5 m. tall & 28 cm. in diameter. Bunch pendulous, with 10 hands, the individual fingers 15 cm long and 3 cm. in diameter. Fruits yellow when ripe. Male bud dark purple. Plants exceptionally vigorous & (more or less) disease free. Should be held in strict quarantine. - Sent to U.S. & planted at college. An AAB type

7448 - Bungulan - Reported to be yellow when ripe - Photo only.

BARRIO DILA, SANTA ROSA, LAGUNA, LUZON, AT ABOUT SEA LEVEL.
FEB. 23, 1960 - WITH DAVIS J. CLOWARD.

X 7449- TURDANG PANARILI - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS 5 M. IN HEIGHT & 30 CM. IN DIAMETER. PSEUDOSTEMS GREEN, WITH A FEW BLACKISH BLOTCHES. BUNCH PENDULOUS, WITH 9 HANDS, THE INDIVIDUAL FINGERS 18 CM. LONG AND 3.2 CM. IN DIAMETER. FRUITS REPORTED TO BE YELLOW WHEN RIPE. HAS THE LOOK OF A VERY VIGOROUS GALAMAY SENORA TYPE, SIMILAR TO THE GREEN LEAVED FORM (7387) COLLECTED NEAR THE COLLEGE COFFEE PLOT. MAY BE AN AAA, (OR AA?) TYPE. - PLANTED AT COLLEGE & SENT TO THE U.S.

ECONOMIC GARDEN, LOS BAÑOS, LAGUNA, LUZON, AT ABOUT 100 FT. FEB. 25, 1960 - WITH DAVIS J. CLOWARD.

X 7450- CANDY BANANA - STOOLING HABIT COMPACT, WITH MANY PSEUDOSTEMS 4 M. TALL & 28 CM. IN DIAMETER. FRUITS NOT SEEN, BUT REPORTED TO BE YELLOW. UPPER MARGIN OF PETIOLAR CANAL CONSPICUOUSLY FLUSHED ROSE RED, A VIGOROUS INARNIBAL-TYPE, POSSIBLY AA. PLANTED AT COLLEGE AND SENT TO THE U.S.

X 7451- CARIÑOSA - HABIT COMPACT, WITH A FEW PSEUDOSTEMS 2 M. TALL & 18 CM. IN DIAMETER. PSEUDOSTEMS REDDISH PURPLE, WITH BROWN BLOTCHES. BUNCH PENDULOUS, WITH 6 HANDS, THE INDIVIDUAL FINGERS 14 CM. LONG AND 2.8 CM. IN DIAMETER. FRUITS yellow when ripe. New leaf flushed purple & margin of petiolar canal rose red. A small Inarnibal-type - possibly AA. Planted at College & sent to U.S.

x 7452- Laines - Habit compact, with a few yellowish green pseudostems 3 m. tall & 20 cm. in diam. Fruits not seen, but reported to be red. Looks like a Dalamay-Senora type, with fairly erect leaves. Margin of petiolar canal narrowly flushed rose, & midrib of mature leaf faintly pink. Has rather an AA look. Planted at College & sent to U.S.

7453. Inarnibal - Habit compact, with many pale yellowish green pseudostems 4 m. tall & 28 cm. in diameter. Bunch horizontal, with 8 hands, the individual fingers 13 cm. long and 2.5 cm. in diameter (immature fruit.) Fruits reported to be yellow when ripe. Male bud dark purple, & very like that of Latundan. Possibly an AA type. Not at all like other Inarnibal-types and unique in the nearly horizontal bunch of small fruit. Bunch looks very much like photos of Pisang Lilin!
Compare with 7529.

7454 - SABANG BATANGAS - HABIT COMPACT, WITH MANY PSEUDOSTEMS 4.5 M. TALL & 32 CM. IN DIAMETER. PSEUDOSTEMS GREEN, WITH SOME BLACKISH BLOTCHES. BUNCH SEMI-PENDULOUS, WITH 8 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 14 CM. LONG AND 5 CM. IN DIAMETER. FRUITS GREEN WHEN IMMATURE & YELLOW WHEN RIPE. PULP REPORTED TO BE FIRM, REDDISH & SWEETER THAN THAT OF SABA. ONE OF THE MANY SABA-TYPES - AN ABB OR BBB TYPE. PLANTED AT COLLEGE, BUT NOT SENT TO U.S.

X 7455. AGUILA NO. 1 - HABIT COMPACT, WITH MANY PSEUDOSTEMS 3.5 M. TALL & 30 CM. IN DIAMETER. PSEUDOSTEMS GREEN, WITH BLACKISH BLOTCHES. BUNCH NOT SEEN, BUT REPORTED TO BE PENDULOUS, & WITH YELLOW FRUIT. LOOKS LIKE A FREAK BUNGULAN-TYPE, WITH A TENDENCY TO HAVE DIVIDED PSEUDOSTEMS AND/OR DISTICHOUS FOLIAGE. PROBABLY AN AAA TYPE. AN OUTSTANDING CURIOSITY. PLANTED AT COLLEGE & SENT TO U.S.

ORIGINAL SOURCE - MENDEZ - CAVITE, LUZON.

X 7456 - AGUILA NO. 2 - HABIT COMPACT, WITH A FEW PSEUDOSTEMS 3 M. TALL & 28 CM. IN DIAMETER. PSEUDOSTEMS GREEN, WITH BLACKISH BLOTCHES. BUNCH PENDULOUS, WITH 5 HANDS, THE INDIVIDUAL FINGERS 20 CM. LONG AND 3.2 CM. IN DIAMETER. FRUITS YELLOW WHEN RIPE. LOOKS LIKE A FREAK BUNGULAN-TYPE, REPORTED TO SOMETIMES PRODUCE 2-3 BUNCHES FROM A GIVEN PSEUDOSTEM.

LOOKS LIKE QUISUMBINGS ILLUSTRATION OF DOOL, WHICH SIMMONDS BELIEVES TO BE AN AA TYPE. PLANTED AT COLLEGE, BUT NOT SENT TO U.S. - ORIGINAL SOURCE - MENDEZ, CAVITE.

× 7457- BOLERO - HABIT COMPACT, WITH A FEW, MOSTLY GREEN PSEUDOSTEMS 4 M. TALL & 30 CM. IN DIAM. BUNCH PENDULOUS, WITH 7 HANDS, THE INDIVIDUAL FINGERS 16 CM. LONG AND 3 CM. IN DIAMETER (IMMATURE FRUIT). FRUITS YELLOW WHEN RIPE. LEAF PETIOLE ROSE PURPLE, & MIDRIB OF MATURE LEAF MORE OR LESS ROSE. FOLIAGE ERECT, & PLANTS HAVE AN AA LOOK. PLANTED AT COLLEGE, & SENT TO U.S.

- NONE SPROUTED AT COLLEGE MAY 6, 1960

× 7458- INARNIBAL - HABIT COMPACT, WITH A FEW PSEUDOSTEMS 2 M. TALL & 16 CM. IN DIAMETER. PSEUDOSTEMS GREEN, WITH BROWNISH BLOTCHES. BUNCH PENDULOUS, WITH 6 HANDS, THE INDIVIDUAL FINGERS 9 CM. LONG AND 2.4 CM. IN DIAMETER. FRUITS YELLOW WHEN RIPE. PULP PALE CREAM, NOT AS STICKY AS MOST INARNIBAL-TYPES, AND OF PLEASANT FLAVOR. UNUSUAL IN LADY-FINGER TYPES IN ABSENCE OF COLOR IN FOLIAGE. LOOKS LIKE A SMALLER SIAMESE (7345) AND SHOULD BE COMPARED WITH IT. POSSIBLY AN AA TYPE. PLANTED AT COLLEGE, AND SENT TO U.S.

Barrio Lalaan, Silang, Cavite, Luzon, at about 1000 ft.
Feb. 27, 1960 - with Davis V. Croward.

X 7459- Tinduk (?) - Pseudostem pale yellowish green & solitary, 1.5 m. tall & 13 cm. in diameter, with a nest of corm-like suckers at the base. Bunch not seen, but fruit reported to be yellow & cooked. Water suckers heavily blotched with reddish purple & mid-rib of mature leaf tinted rose. Looks like Tanduk from Indonesia in College variety plot & should be compared with it. Planted at College & sent to U.S. Probably an AAB type.

X 7460- Nilantakan - Name is supposed to mean more or less "packed" in Tagalog, in reference to the compact bunch (our maid, however, says that it is a dirty word, meaning unspecified!) Habit compact, with a few blackish pseudostems 4 m. tall & 29 cm. in diameter. Bunch semi-pendulous, with 10 hands, the individual fingers splayed and 14 cm. in ~~[illegible]~~ length and 2.8 cm. in diameter. Fruits yellow when ripe, & look very much like Quisumbing's illustration of Dinalaga. New leaf & mid-rib of mature leaf rose purple. An Inarnibal-type (AA?) very like 7446. Planted at College & sent to U.S.

College of Forestry, slopes of Mount Makiling, Laguna, Luzon, at about 300 ft. - Feb. 29, 1960 - with Ramon Valmayor.

7461 - Musa coccinea - Habit compact, with a few green pseudostems 1.7 m. tall & 8 cm. in diameter. Inflorescence erect, with 6-8 brilliant scarlet, very showy bracts, which are tipped with green & apparently persistent. An outstanding ornamental as well as of phylogenetic interest. Sent to U.S.

College of Agriculture - Laguna, Luzon, at about 300 ft. Feb. 29, 1960 - with Ramon Valmayor -

7462 Inarnibal - Habit compact, with many pseudostems 2.5 m. tall & 20 cm. in diameter. Pseudostems green, heavily blotched reddish brown. Bunch semi-pendulous, with 9 hands, the individual fingers 14 cm. long & 2.6 cm. in diameter. Fruit splayed & yellow when ripe. Bud pinkish purple. New leaves frosted purple on lower surface. The common & typical form of Inarnibal - Photo only (Kodachrome)

College of Forestry, slopes of Mount Makiling, Laguna, Luzon, at about 300 ft. Feb. 29, 1960 - with Ramon Valmayor.

× 7463 - Heliconia humilis - Inflorescence erect, bracts 3-5, dark red, edged green. Sent to U.S. (Buddenhagen request). Also seen in Zamboanga, in gardens.

× 7464 - Heliconia psittacorum - Inflorescence erect, bracts 2-3, orange. Cultivated & naturalized. Sent to U.S. (Buddenhagen request)

Mataasnakahoy, Batangas, Luzon, at about 1000 ft. March 1, 1960 - with Davis V. Cloward.

× 7465 - Caramelo - Habit compact, with a few reddish brown pseudostems 4.5 m. tall & 30 cm. in diameter. Bunch pendulous, with 8 hands, the individual fingers splay 10 and 12.5 cm. long and 2.6 cm. in diameter. Fruits yellow when ripe. New leaf & mid-rib of mature leaf green, unusual in combination with large size of plant and Inarnibal-like bunch of small fruit. May be either an AAA, or AA type. Planted at College & sent to U.S.

7466- BALAMAY SENORA (?) - HABIT COMPACT, WITH A FEW SLENDER PSEUDOSTEMS 2.5 M. TALL & 18 CM. IN DIAMETER. PSEUDOSTEMS GREEN, WITH CONSPICUOUS BLACK BLOTCHES. BUNCH NOT SEEN, BUT REPORTED TO BE PENDULOUS. FRUIT REPORTED TO BE YELLOW. A VERY STRANGE PLANT, VERY LIKE AN ABACA IN THE OFFSET LEAF BASE, ERECT LEAVES & BLACKISH PSEUDOSTEM. FRUITS REPORTED TO BE SLENDER, ABOUT 6-7" LONG, WITH AN ELONGATE CONSTRICTION AT THE TIP. COMPLETELY UNLIKE ALL OTHER BALAMAY-SENORA TYPES & UNIQUE IN THE COLLECTION. PLANTED AT COLLEGE, BUT NOT SENT TO U.S. LOOKS LIKE AN AA TYPE.

BARRIO LAGNAS, BAUAN, BATANGAS, LUZON, AT SEA LEVEL. MARCH 1, 1960 - WITH DAVIS J. CLOWARD

7467- SABA PUTI - HABIT COMPACT, WITH MANY VERY VIGOROUS, MOSTLY GREEN PSEUDOSTEMS 5 M. TALL & 36 CM. IN DIAMETER. BUNCH HORIZONTAL, WITH 8 HANDS, THE INDIVIDUAL FINGERS SPLAYED & WHITE WHEN IMMATURE, AND 13 CM. LONG & 4.2 CM. IN DIAMETER. FRUITS YELLOW WHEN RIPE. IDENTICAL WITH THE ORDINARY MEDIUM-SIZED SABA EXCEPTING FOR THE CONSPICUOUS SILVERY BLOOM. A LARGER PLANT, WITH A LARGER BUNCH THAN THE ZAMBOANGA MESTIZO (7493). PLANTED AT COLLEGE & SENT TO U.S. - PROBABLY AN ABB TYPE.

Bud Datu ("Prince's Hill") above Jolo, Sulu, at about 500 ft. - March 6, 1960 - with Davis J. Croward.

7468 - Tanbung - Habit compact, with many, mostly reddish brown pseudostems 3.8 m. tall & 28 cm. in diameter. Bunch horizontal, with 7 hands, the individual fingers splayed and 15 cm. long & 3 cm. in diameter. Fruits reported to be light brown when ripe. New leaf & mid-rib of mature leaf rose purple. An AA Inarnibal-type, with a large, compact bunch. Possibly identical with Amas Manang from Zamboanga. Planted at College & sent to U.S.

7469 - Saing Todloh - Habit compact, with a few pseudostems 4.5 m. tall & 28 cm. in diameter. Pseudostems green, with blackish markings. Bunch pendulous, with 7 hands, the individual fingers 22 cm. long and 3 cm. in diameter. Fruits yellow when ripe. An AA type, very similar to Simmonds photos of Paka and Pisang Rotan in the long, slender, abruptly constricted fingers and the persistent blackish male flowers. Probably the same as Morong Datu from Sorsogon. Sent to U.S. An AA type.

7470 - MANURONG PULA - HABIT COMPACT, WITH MANY GREEN PSEUDOSTEMS 4.5 M. TALL & 32 CM. IN DIAM. BUNCH SEMI-PENDULOUS, WITH 6 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 13 CM. LONG AND 5.2 CM. IN DIAM. FRUITS GREEN WHEN IMMATURE, AND YELLOW WHEN RIPE, BRACTS REDDISH PURPLE, TWO LIFTING SIMULTANEOUSLY. A VIGOROUS ABB OR BBB SABA-TYPE, IN WHICH THE MIDRIB OF THE MATURE LEAF IS ROSY PINK, THE COLOR OFTEN EXTENDING TO THE LEAF PETIOLE, AND UNIQUE AMONG THE SABAS SEEN TO DATE IN THIS RESPECT. PLANTED AT THE COLLEGE, BUT NOT SENT TO THE U.S.

7471 - PUGARAN - NAME SUPPOSED TO MEAN "NEST," PRESUMABLY IN REFERENCE TO THE CLUSTER OF CORM-LIKE SUCKERS AT THE BASE. HABIT OF PSEUDOSTEM SOLITARY, GREEN, ABOUT 3.2 M. TALL & 30 CM. IN DIAM. BUNCH PENDULOUS, WITH 4 HANDS, THE INDIVIDUAL FINGERS 28 CM. LONG AND 3.5 CM. IN DIAMETER. FRUITS YELLOW WHEN RIPE, AND EITHER EATEN FRESH OR COOKED. AN AAB TYPE, VERY SIMILAR TO LAKNAU. PLANTED AT COLLEGE, BUT NOT SENT TO U.S.

JINGAN, TALIPAO DISTRICT, JOLO, SULU, AT ABOUT 700 FT.
MARCH 7, 1960 - WITH DAVIS V. CLOWARD.

7472- MANURONG PUTI - HABIT COMPACT, WITH MANY, MOSTLY GREEN PSEUDOSTEMS 4 M. TALL & 32 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 9 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 17 CM. LONG AND 4.5 CM. IN DIAMETER. FRUITS GREEN WHEN IMMATURE, AND YELLOW WHEN RIPE, WITH WHITE PULP. AN ABB TYPE, IDENTICAL WITH CARDABA. PHOTO ONLY.

7473- SABA SUG - "SULU SABA" - HABIT COMPACT, WITH MANY, GREEN PSEUDOSTEMS 4 M. TALL & 32 CM. IN DIAM. BUNCH HORIZONTAL, WITH 9 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 13 CM. LONG AND 3.2 CM. IN DIAM. FRUITS GREEN WHEN IMMATURE AND YELLOW WHEN RIPE. LOOKS LIKE A BB TYPE & THE SAME AS 7494 FROM ZAMBOANGA. VERY COMMON IN JOLO MARKETS. PHOTO ONLY. FLESH YELLOW.

7474- SAING TUMBAGA - (TADIAO TUMBAGA) - HABIT COMPACT, WITH MANY MOSTLY GREEN PSEUDOSTEMS 4.5 M. TALL & 36 CM. IN DIAM. FRUIT NOT SEEN, BUT REPORTED TO BE "GOLDEN" OR "COPPERY" WHEN RIPE. PLANTS LOOK LIKE A VIGOROUS SABA-TYPE, & NOT AT ALL LIKE MORADO. POSSIBLY AN ABB TYPE. PLANTED AT CORREDE, BUT NOT SENT TO THE U.S.

7475- TADIAO LIMBUNAO - Habit compact, with many yellowish green pseudostems 4.5 m. tall & 34 cm. in diameter. Bunch cut, with 9 hands, the individual fingers splayed and 18 cm. long and 5.5 cm. in diam. Fruit yellow when ripe, the pulp cream-colored and firm, with a pleasant, subacid taste. A yellow morado type, with plumper, rounder, paler yellow fruits. Plants like a vigorous Saba-type, probably ABB, or AAB. Planted at Corredor, but not sent to the U.S.

Barrio Bilaan, Talipao, Jolo, Sulu, at about 500 ft. - March 7, 1960. With Davis J. Croward.

7476- BIEIHAN (BIRUIHAN) - Habit compact, with many green pseudostems 4.5 m. tall & 34 cm. in diam. Bunch pendulous, with 7 hands, the individual fruits splayed and 15 cm. long and 4.8 cm. in diam. Fruits yellow when ripe, and with a few seeds (reported to be very seedy & not eaten). Bracts dull reddish purple, two lifting simultaneously. Probably a BBB, Bituhan-type balbisiana. Planted at Corredor, but not sent to the U.S.

JOLO MARKET - SULU - MARCH 7, 1960

7477- SIANKIL (SIANK-HIL) - FRUITS YELLOW. AN AA TYPE. PHOTO ONLY. - SEE 7485

7478- SABA ABUHUN "GREY SABA" - FRUITS SILVERY GREY WHEN IMMATURE. A FORM OF CARDABA, PROBABLY AN ABB TYPE. PHOTO ONLY.

7479- TADIAO - LIKE A PLUNGER, PALER YELLOW MORADO. PHOTO ONLY. PHOTO WITH TWO HANDS TAKEN IN ZAMBOANGA, THE BLUNT-FINGERED HAND HAVING COME FROM THE BASE OF THE SAME BUNCH AS THE MORE POINTED ONES.

SANGA-SANGA ISLAND, TAWI TAWI GROUP, SULU, AT ABOUT 50 FT. MARCH 8, 1960 - WITH DAVIS V. CROWARD.

7480- DO-KA (DO-KKAH) - TRANSLATED AS "WORRY" OR "WORRIED" DUE TO SMALL SIZE (INABILITY TO GROW LARGER) - AN EXAMPLE OF THE ORIENTAL MIND! - HABIT COMPACT, WITH A FEW COMPLETELY GREEN PSEUDOSTEMS 1.8 M. TALL & 17 CM. IN DIAMETER. FRUITS NOT SEEN, BUT REPORTED TO BE YELLOW. MIDRIB OF NEW LEAF FAINTLY FLUSHED PINK. LOOKS LIKE AN AA TYPE, BUT UNUSUAL IN THE GREEN PSEUDOSTEM AND CLOSED LEAF PETIOLE. PLANTED AT COLLEGE & SENT TO U.S.

7481- SAGUING TUMBAGA - HABIT COMPACT, WITH A FEW REDDISH PSEUDOSTEMS 2.4 M. TALL & 17 CM. IN DIAM. BUNCH HORIZONTAL, WITH 4 HANDS, THE INDIVIDUAL (IMMATURE) FINGERS SPLAYED AND 12 CM. LONG AND 2.2 CM. IN DIAM. FRUITS RED, THE MALE BUD DARK PURPLE. A DWARF PLANT, WITH ERECT LEAVES & AN AA LOOK. PLANTED AT COLLEGE, & SENT TO THE U.S.

AAA?

TOWN OF BATO BATO, TAWI TAWI ISLAND, SULU - MARCH 9, 1960 - AT ABOUT 100 FT. - WITH DAVIS J. CLOWARD.

7482- BATA BAJA "CHILDRENS BANANA" "BATA" MEANS CHILD, BUT THE ASSOCIATION IS A BIT OBSCURE. - HABIT NOT SEEN - FRUITS BOUGHT IN MARKET. FRUITS YELLOW, THE ELONGATE TIP & PEDICEL OFTEN GREEN. SKIN VERY THIN. A MORE OR LESS TYPICAL INARNIBAL-TYPE, BUT WITH A LONGER-THAN-AVERAGE "BEAK". REPORTED TO FRUIT IN THREE MONTHS (!) FROM PLANTING. VERY COMMON ON SANGA SANGA & TAWI TAWI. LOOKS LIKE AN AA TYPE. PHOTO ONLY.
SEE 7495

BARRIO OF BONGAO, TAWI TAWI ISLAND, AT ABOUT 100 FT. - MARCH 9, 1960 - WITH DAVIS J. CLOWARD.

7483- TINDUC - PSEUDOSTEM ROSY PINK, AND ESSENTIALLY SOLITARY, WITH A CLUSTER OF SMALL SUCKERS AT THE BASE. PSEUDOSTEM 3 M. TALL & 28 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 3 HANDS OF very large, yellow fruit, the individual fingers 36 cm. long and 6 cm. in diameter. An AAB-type horse plantain. Planted at College, but not sent to the U.S.

7484- Amas (Jamas ?) - Habit compact, with a few pseudostems 2.8 m. tall & 17 cm. in diam. Pseudo-stems green, with brownish markings. Bunch pendulous, with 5 hands, the individual fingers splayed and 10 cm. long and 2.5 cm. in diameter. Fruits yellow when ripe. New leaf & midrib green, but margin of petiolar canal rose pink. Looks like an AA type. Planted at College & sent to the U.S.

– None sprouted at College May 6, 1960

7485- Siang-Hil (Sianil) - Habit compact, with a few pseudo-stems 2.5 m. tall & 17 cm. in diam. Pseudostems green, flushed dark purple on the lower half. Bunch semi-pendulous, with 7 hands, the individual fingers arcuate and 13.5 cm. long and 3 cm. in diameter. Fruits yellow when ripe. New leaf green - midrib of mature leaf flushed pink. An AA, Inarnibal-type. Planted at College and sent to U.S. - See 7477.

7486- Binawe - Habit compact, with a few green pseudo-stems 4 m. tall & 28 cm in diam. Fruits not seen, but reported to be like a yellow Bungulan, but straighter & to be either cooked or eaten fresh. Plant rare, & said to have come from Lubang Island. Looks like an AAA type. Planted at College but not sent to U.S.

— None sprouted at College May 6, 1960

7487- Tudlo Datu (Tumbaga) - Pseudostem red, solitary, without suckers or corm-like buds, about 2.6 m. tall & 14 cm. in diameter. Bunch horizontal, with 2 hands, the (immature) individual fingers 9 cm. long and 2.5 cm. in diameter. Fruits red. Look like Teodoro drawing of Morado. Probably a poor plant of Morado (borer injury & poor soil). Planted at College, but not sent to U.S. Probably an AAA type.

Zamboanga City, Mindanao, at about 50 ft. March 11, 1960 - with Davis J. Croward.

7488- Pitogo - Habit compact, with many green pseudostems 5 m. tall & 34 cm. in diam. Bunch semi-pendulous, with 10 hands, the individual fingers splayed and 8 cm. long and 4 cm. in diameter. Fruits yellow when ripe, of very good, apple-like flavor & very good lasting qualities. A very vigorous ABB Saba-type, with rounded, fig-like fruits, in a very compact bunch. An outstanding curiosity, also known as Ni Lanzon. Planted at College & sent to U.S.

Best plants found only in yard of Tetuan Catholic church, where they have about a dozen strong mats.

7489 - Sabine España - Habit compact, with many reddish brown pseudostems 2.5 m. tall & 13 cm. in diameter. Bunch horizontal, with 5 hands, the individual fingers splayed and 12 cm. long and 2.8 cm. in diameter. Fruits yellow when ripe. New leaf green, midrib of mature leaf and wings of petiolar canal flushed pink. Looks like an AA type. Planted at college and sent to U.S.

7490 - Mundo - means "wild" in Visayan - Habit compact, with 3-4 pseudostems 4 m. tall & 30 cm. in diam. Pseudostems green, with dense blackish markings on the lower half. Bunch horizontal, with 8 hands, the individual fingers splayed and 10 cm. long and 5 cm. in diameter. Fruits yellow when ripe, the pulp without seeds and yellow, hard & mealy. Fruits look very like those of Pacol - reported to keep & ship very well. Foliage erect. Looks like a BB type. Planted at college & sent to U.S. - See 7518.

- this is very like a larger form of pisang malacca from Borneo; i.e. violacea.

7491 - Gloria (?) - (Gosok-Siusok (Jolo)) - Habit compact, with many, mostly green pseudostems, 5.5 m. tall & up to 60 cm. in diameter. Bunch pendulous, often with 20-25 hands, the individual fingers arcuate and 17 cm. long and 4 cm. in diameter. Fruits yellow when ripe, & reported to have a few seeds. Fruit eaten either fresh or cooked. Probably an ABB type, with the largest bunches of fruit seen in the Philippines. Planted at college & sent to U.S. - See 7525

7492- Bungulan (yellow form) - Habit compact, with many blackish pseudostems 4 m. tall & 32 cm. in diameter. Bunch pendulous, with 10 hands, the individual fingers 26 cm. long and 5.2 cm. in diameter. Fruits yellow when ripe, of excellent texture and flavor. An AAA type of very high quality, that should be compared with our Central American Lacatan and considered for cultivation in Honduras, since it is presumably resistant to Panama disease. Planted at Corredor & sent to U.S.

7493- Mestizo (Saba mestizo) - Habit compact, with many green pseudostems 4.5 m. tall & 32 cm. in diameter. Bunch horizontal, with 6-9 hands, the individual fingers splayed and 9 cm. long and 5 cm. in diameter. Fruit with a conspicuous white bloom when immature, and pinkish yellow when ripe. Leaves erect. Has the look of a BB type. Planted at Corredor & sent to U.S.

7494- Saba (Saba Sug (Jolo) - Habit compact, with many, mostly green pseudostems 4.5 m. tall & 32 cm. in diameter. Bunch horizontal, with 7 hands, the individual fingers splayed and 8 cm. long and 3.5 cm. in diameter. Fruits green when immature and yellow when ripe. Leaves erect. Looks like a BB type, very similar to [illegible]. Planted at Corredor & sent to U.S.

7495- SAGING BATA - (BATA BATA (TAWI TAWI) - "CHILDS, OR "CHILDRENS" BANANA. HABIT COMPACT, WITH MANY PSEUDO-STEMS 2.5 M. TALL & 16 CM. IN DIAMETER. PSEUDOSTEMS GREEN, WITH REDDISH BROWN BLOTCHES. BUNCH HORIZONTAL, WITH 9 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 15 CM. LONG AND 2.7 CM. IN DIAMETER. FRUITS yellow WHEN RIPE. LOOKS LIKE AN AA TYPE. PLANTED AT COLLEGE & SENT TO U.S. -SEE 7482

7496 - VANGAAS - FRUITS RED. HAND WITH CONSPICUOUSLY ROUNDED FINGERS FROM BASE OF BUNCH WHICH PRODUCED THE OTHER HAND. NOTE SIMILARITY TO 7479. VANGAAS APPARENTLY A GENERIC TERM, WITH QUALIFYING SPECIFIC EPITHETS SUCH AS VANGAAS TUMBAGA (RED), VANGAAS LAMBUNGO (yellow) ETC. PHOTO ONLY

Kilometer 12, ON ROAD FROM SURIGAO TO PLACER, SURIGAO PROVINCE, MINDANAO, AT ABOUT 100 FT. - MARCH 16, 1960 - WITH DAVID J. CROWARD.

7497- BANGAYAN (LACATAN? - PRINCESA) - HABIT COMPACT, WITH MANY BLACKISH PSEUDOSTEMS 3-5 M. TALL & 18-25 CM. IN DIAMETER. (LARGEST PLANTS SEEN AT MAINIT.) BUNCH PENDULOUS, WITH 5-7 HANDS, THE INDIVIDUAL FINGERS NOT SPLAYED AND 13 CM. LONG AND 3.5 CM. IN DIAMETER. FRUITS yellow WHEN RIPE. HAS THE LOOK OF AN AAA TYPE, WITH LAX FOLIAGE, & ROSY PETIOLAR CANAL MARGIN, VERY DIFFERENT FROM THE COMMON DIPLOID

Lacatans. Planted at college, but not sent to U.S. because of small bunch size.

x 7498- Eda-an - Habit compact, with a few pseudostems 2 m. tall & 17 cm. in diameter. Pseudostems green, with reddish brown blotches. Bunch horizontal, with 6 hands, the individual fingers splayed and 11 cm. long and 2.5 cm. in diameter. Fruits yellow when ripe. Male bud pale pinkish purple, new leaf green, midrib of mature leaf green. An AA type. Planted at college & sent to U.S. - See photo of 7524

Vcty. Placer, Surigao Province, Mindanao, at about 100 ft. - March 16, 1960 - with Ramon Valmayor.

x 7499- Biu-Batu (Binato) - Habit compact, with a few reddish purple pseudostems 2 m. tall & 18 cm. in diameter. Bunch horizontal, with 4 hands, the individual fingers splayed and 12 cm. long and 3 cm. in diameter. Fruits yellow when ripe, reported to be cooked before being eaten. New leaf conspicuously reddish purple, midribs of mature leaf rose. Looks like an AA type. Planted at college & sent to the U.S.

BARRIO PAGAO, BACUAG, SURIGAO PROVINCE, AT ABOUT SEA LEVEL - MARCH 16, 1960 - WITH RAMON VALMAYOR.

X 7500 - Pelipita (Pedipia) - Habit compact, with many green pseudostems 4 m. tall & 30 cm in diam. - Bunch semi-pendulous, with 8 hands, the individual fingers more or less splayed and 18 cm. long and 5 cm. in diameter, conspicuously constricted at the apex. Fruits yellow when ripe, & reported to have a few seeds. Looks like an ABB type. Sent to U.S. Same as Pinipita.

BARRIO BUGAS-BUGAS, PLACER, SURIGAO, MINDANAO, AT ABOUT 100 ft. - MARCH 16, 1960 - WITH RAMON VALMAYOR.

X 7501 - PURIKIT - Habit compact, with a few blackish pseudostems 4 m. tall & 30 cm. in diameter. Bunch horizontal, with 5 very compact hands, the individual fingers about 10 cm. long & 2.5 cm. in diameter. Fruits yellow when ripe. Male bud pale yellow, striped pale purple. Looks like a robust AA type. Sent to U.S.

Mainit, Surigao Province, at about 100 ft, March 17, 1960 - with Ramon Valmayor.

7502- Du-Huy (Du-Hoy) - Habit compact, with a few blackish pseudostems 4 m. tall & 30 cm. in diameter. Bunch pendulous, with 5 hands, the individual fingers 17 cm. long and 3.2 cm. in diameter. Fruits reported to be green at maturity, mid-rib of mature leaf faintly tinged red. Looks like an AAA type. Planted at College, but not sent to U.S.

x 7503- Pamoti-on (Pamotion) - Habit compact, with a single blackish pseudostem, 4 m. tall & 28 cm. in diameter, surrounded by many small suckers, Bunch pendulous, with 6 hands, the individual fingers splayed and 16 cm. long and 2.6 cm. in diam. - Fruits pale yellow when ripe. An AA type, with better-than-average bunch size, position & finger size. Planted at College, & sent to U.S.

x 7504- Lungsuranon - Habit compact, with many blackish pseudostems 4.5 m. tall & 28 cm. in diameter. Bunch pendulous, with 9 hands, the individual fingers splayed and 15 cm. long and 2.8 cm. in diameter. Fruits yellow when ripe. New leaf flushed purple. Midrib of mature leaf rose red. Fruits reported to be eaten either fresh or cooked. & yellow when ripe. Looks like an AA type, & possibly

Just a larger, or better grown specimen of Binato (7499) - Planted at college & sent to U.S.

Barrio Matin-ao, Mainit, Surigao Province, Mindanao, at about 200 ft. - March 17, 1960 - with Ramon Valmayor.

X 7505 - Taktagan - Habit compact, with a few blackish pseudostems 4 m. tall & 28 cm. in diameter. Bunch pendulous, with 5-6 very immature hands. Fruits reported to be yellow. New leaf & midrib of mature leaf green. A vigorous AB type. Planted at college & sent to U.S.

Barrio Cananga-an, Mainit, Surigao Province, Mindanao, at about 100 ft. March 17, 1960 - with Ramon Valmayor.

7506 - Do-ka - Habit compact, with many pseudostems 3.5 m. tall & 28 cm. in diameter. Pseudostems green, with blackish purple markings. Bunch pendulous, with 3 hands, the individual fingers splayed and 34 cm. long and 5.5 cm. in diameter. Fruits yellow when ripe. Male bud pale purple, striped pale yellow. Probably an AAB type. Very like 7471, but with abundant suckers. Planted at college, but not sent to U.S.

× 7507- Lonsine - Habit compact, with many blackish pseudo-stems 3 m. tall & 28 cm. in diameter. Bunch pendulous, with 4-5 hands, the individual fingers not splayed, & 18 cm. long & 3.5 cm. in diameter. Fruits reported to be straw yellow when ripe, and to have a few seeds, male bud reddish purple. Looks like an AA diploid, with better than average bunch form. Planted at college & sent to U.S.

7508- Canaya - A typical Chinese dwarf, with persistent male bracts. Planted at college, but not sent to U.S. An AAA type.

Barrio Basag, Butuan City, Agusan Province, at about 50 ft. - March 20, 1960 - with Davis & Edwards.

7509- Angao - Habit compact, with many pseudostems 3 m. tall & 28 cm. in diameter. Pseudostems green, with blackish markings. Fruits not seen, but reported to be yellow & to be cooked. Looks like an ABB type. Planted at college, but not sent to U.S.

Barrio Tabon-Tabon, Esperanza, Agusan Province, Mindanao, at about 200 ft. - March 20, 1960 - with Davis J. Cloward.

x 7510 - Inambak (Inmabucan ?) - Habit solitary, or with 2-3 pale greenish yellow pseudostems 4 m. tall & 34 cm. in diameter. Bunch horizontal or semi-pendulous, with 6 hands, the individual fingers splayed and 16 cm. long and 5 cm. in diameter, with very distinctive longitudinal corrugations. Fruits yellow when ripe; reported to be rather sour & little esteemed. Said to have been obtained from Manobos, who formerly owned the land. Male bud canary yellow, two bracts lifting simultaneously. A very strange plant, not described by Simmonds; like a yellow balbisiana, but with the petiolar canal open and ridged fruits. Planted at College & sent to US.

Barrio Afga, Esperanza, Agusan Province, Mindanao, at about 500 ft. - March 20, 1960 - with Davis J. Cloward.

7511 - Can-na - Habit compact, with a few pseudo-stems 4.2 m. tall & 30 cm. in diameter. Pseudostems yellowish green, with blackish markings. Bunch pendulous, with 7 hands, the individual fingers not splayed and 22 cm. long and 5 cm. in diameter. Fruits yellow when ripe, said to be eaten fresh or cooked, Looks like an AAB type. - Planted at college, but not sent to U.S.

7512 - Agutay - Form with purple male bud, majority green in this area. Bunch horizontal, with 18 hands, the individual fingers 7 cm. long & 2 cm. in diameter. Common on cutover land, along highway. Planted at college, but not sent to U.S.

Barrio Tablunok, Esperanza, Agusan Province, Mindanao, at about 500 ft. - March 20, 1960 - with Davis J. Chouard.

7513 - Kamoros (Curiquit?) - Habit compact, with many reddish brown pseudostems 4.2 m. tall & 30 cm. in diameter. Bunch semi-pendulous, with 8 hands, the individual fingers splayed and 12 cm. long and 4 cm. in diameter. Fruits yellow & often splitting when ripe, male bud reddish purple. Fruits round at the apex, and like a smaller, plump yellow Morado. Said to fruit in six months from planting. A Moro variety, from the Lake Lanao area. Looks like an AA type. Planted at college and sent to U.S.

Swampy area near lower end of Lake Mainit, Agusan Province, Mindanao, at about 100 ft. elevation. March 21, 1960 - with Ramon Valmayor.

7514- Metroxylon sagu - "Lumbia" - Sago palm, to about 40 ft. in height at maturity, when a gigantic terminal panicle of scaly fruits terminates the life of the individual trunk. Juvenile plants with large, pinnate fronds & a cluster of several suckers from a common base. A commercial source of pearl sago. Seeds sent to Honduras. See photos.

7515- Alocasia sp. (?) "Gabi" - Leaf petiole nearly black, with a bluish powdery superficial bloom. Corm edible. An outstanding ornamental. Sent to Honduras.

College of Forestry - slopes of Mount Makiling - 400 ft, March 28, 1960 - with Dorothy O. Allen.

7516- Strongylodon macrobotrys - "Jade Vine" - A giant, woody liana, with long, pendulous racemes of greenish blue flowers. Seeds sent to Honduras.

College of Agriculture, Los Baños, Laguna, at about 200 ft. - April 2, 1960 - (From garden of Dr. Halsey B. Knapp, Cornell Project Leader.)

7517- Morado - Habit compact, with many red-violet pseudostems 3.8 m. tall & 30 cm. in diam. Bunch pendulous, with 10 hands, the individual fingers not splayed and 17 cm. long and 3.3 cm. in diam. Fruit red, with a distinctly visible yellow basic color. Not positively distinct from the common Morado, but with somewhat larger-than-average, very handsome fruit. One plant exhibits a mutant stem, a reversion to the yellow Morado type. Not sent to U.S. - See photo.

Iwahig Penal Colony, Palawan, at about 50 ft. April 6, 1960.

7518- Mundo - A small-fruited Saba-type with great foliage and few suckers. Same as that seen in Zamboanga (7490). Looks like a parthenocarpic diploid balbisiana. Closeup photo of hand. Not collected.

Barrio San Pedro - Puerto Princesa, Palawan - at about 50 ft. - April 6, 1960.

X 7519 - Carao - Habit compact, with a few greenish yellow pseudostems 4.5 m. tall & 30 cm. in diam. Bunch pendulous, with 5-6 hands, the individual fingers not splayed and 17 cm. long and 3.8 cm. in diam. Fruits reported to be yellow when ripe, & the flavor to be rather like that of Jamaica Red. Looks like an AAA Dalamay-Senora type, rather like 7387. Planted at College & sent to U.S. See photo

Ulugan Bay, west coast of Palawan, at sea level (margins of mature mangrove) - April 7, 1960

X 7520 - Paquel (Musa textilis ?) - Habit compact, with a few green pseudostems 3.2 m. tall & 20 cm. in diam. - Bunch horizontal, with 5-7 hands, the individual fingers splayed and 12 cm. long and 2.9 cm. in diam. Fruits yellow when ripe. Bracts purplish red, 4-5 lifting simultaneously, as in balbisiana. Unusual in the large, compact bunch, bottle neck terminating fingers and several bracts which lift together. Resembles a Red Alinsanay, in some ways. Suggests a textilis x balbisiana hybrid, excepting for seeds (Canton is sterile). Planted at College & sent to U.S. - See photo

BARRIO BACUNGAN, PUERTO PRINCESA, PALAWAN, AT ABOUT 50 FT. ELEVATION. APRIL 7, 1960.

× 7521 - BOTOLAN - HABIT COMPACT, WITH MANY PSEUDO-STEMS 4 M. TALL & 30 CM. IN DIAMETER. BUNCH PENDULOUS, WITH 5-7 HANDS, THE INDIVIDUAL FINGERS NOT SPLAYED AND 17 CM. LONG AND 3.5 CM. IN DIAM. PSEUDOSTEMS GREEN, WITH BLACKISH BLOTCHES. FRUITS REPORTED TO BE YELLOW WHEN RIPE, WITH SWEET, GLUTINOUS PULP & SOME SEEDS. MALE BUD LIKE LATUNDAN, BUT LIGHTER IN COLOR. LOOKS LIKE AN AAB TYPE. PLANTED AT CORREDE & SENT TO U.S. - SEE PHOTO.

BARRIO ARAMAYOAN, NEAR RELIEF POINT, EAST COAST OF PALAWAN - 50 FT. - APRIL 7, 1960.

× 7522 - PAITAN - PSEUDOSTEM SOLITARY, GREEN, SURROUNDED BY MANY SMALL SUCKERS, 3 M. TALL & 28 CM. IN DIAM. BUNCH PENDULOUS, WITH 5 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 17 CM. LONG AND 2.5 CM. IN DIAM. WHEN ABOUT 1/3 DEVELOPED. FRUITS REPORTED TO BE WHITE (?) WHEN RIPE, AND TO BE COOKED. BUD PALE YELLOW, FAINTLY STRIPED & MARGINED PURPLE. COMPARE WITH 7471 & 7506. LOOKS LIKE AN AAB TYPE. PLANTED AT CORREDE & SENT TO U.S. - SEE PHOTO

7523- Masosok (Masusu) - Habit compact, with many pseudostems 4.2 m. tall & 35 cm. in diam. Pseudostems green on upper half, flushed rosy purple below. Bunch pendulous, with 5-7 hands, the individual fingers splayed and 15 cm. long & 3.2 cm. in diam. when about 1/2 developed. Fruits reported to be green when ripe & very sweet. Looks like an ABB Saba-type. Midrib of mature leaf sometimes faintly tinged rose. Probably same as one of our other Sabas but hard to place. Planted at college, but not sent to U.S. - See photo.

Barrio Bacungan, Puerto Princesa, Palawan, at about 150 ft. - April 8, 1960.

7524- Tapok, or Superior - Habit compact, with many pseudostems 2.3 m. tall & 18 cm. in diam. Pseudostems pale yellowish, with reddish brown markings. Bunch pendulous, with 5 hands, the individual fingers splayed and 12 cm. long & 2.7 cm. in diam. Fruit yellow when ripe. Male bud pale purple, with pale yellow longitudinal streaks. New leaf green - midrib of mature leaf green. An AA type, very like Inarnibal (7458) & Eda-an (7498). Photo only.

Puerto Princesa, Palawan, at about 50 ft. - April 8, 1960.

7525- Borneo - Plants brought from Sandakan. Same as Gloria (Siusor) from Zamboanga & Sulu. (7491) - Closeup photo only.

Barrio San Antonio, Los Baños, Laguna, at about 50 ft. - April 10, 1960. - with Ramon Valmayor.

7526- Kolis - Habit compact, with a few pseudostems 3,5 m. tall & 28 cm. in diam. Pseudostems green, with blackish blotches. Bunch pendulous, with 9 hands, the individual fingers more or less splayed and 17 cm. long & 3,5 cm. in diam. Fruits ripen very unevenly, so that half of an individual hand may be yellow, where the rest is green. Skin very leathery, remaining entire after pulp is overripe and soft. Same as Siamese (7362). Planted at college, but not sent to U.S. - Looks like an AAA type. See photo.

AAA?

COLLEGE OF AGRICULTURE, LOS BAÑOS, LAGUNA, LUZON, AT ABOUT 300 FT. - APRIL 14, 1960 - WITH DOROTHY O. ALLEN.

7527- PARKIA ROXBURGHII (?) - TREE, TO ABOUT 80 FT., WITH MASSIVE TRUNK AND SPREADING HABIT OF SAMAN OR GUANACASTE. NATIVE TO DRY HILLS NEAR SUBIC BAY IN BATAAN PROVINCE, & PROBABLY ELSEWHERE. SEEDS SENT TO HONDURAS.

FOREST PRESERVE NEAR BARRIO KAPATAGAN, BASILAN ISLAND, SOUTH OF ZAMBOANGA, MINDANAO, AT ABOUT 1000 FT. APRIL 21, 1960.

7528- SAGING CHONGO - HABIT COMPACT, WITH MANY VIGOROUS PSEUDOSTEMS 5.5 M. TALL & 32 CM. IN DIAM. PSEUDOSTEMS REDDISH PURPLE WHEN STRIPPED, BECOMING BLACKISH WITH AGE. BUNCH HORIZONTAL, WITH 18-25 HANDS, THE INDIVIDUAL FINGERS NOT SPLAYED AND ABOUT 13 CM. LONG AND 3 CM. IN DIAM. FRUITS VERY SEEDY, YELLOW WHEN RIPE. COMPLETE BUNCHES HARD TO FIND - EVIDENTLY BROKEN OFF BY MONKEYS, AS ARE THE CONSISTENTLY GREEN FLOWER BUDS. SAME AS 7380, BUT FROM MATS OTHER THAN THE ORIGINAL. THE BEST FORM OF BANKSII FOUND TO DATE IN THE PHILIPPINES. SEE PHOTOS. PLANTED AT COLLEGE & SENT TO U.S.

– compare photo with 7453

7529 – Basilan Diploid – No name known in Western Mindanao Lumber Company camp where grown. Habit compact, with a few reddish purple pseudo-stems which become blackish with age. Pseudostems 3.2 m. tall & 28 cm. in diameter. Bunch horizontal, with 8 hands, the individual fingers splayed and about 13 cm. long and 3.2 cm. in diam. Fruits reported to be seedless & yellow when ripe. Male bud dark purple. New leaf flushed purple. Midrib of mature leaf rose red. Foliage very erect. Looks like an AA type, superficially very similar to the purple bracted form of banksii. Probably the same as the Basilan diploid collected by Vakili in November of 1959. See photos. Planted at Corrade & sent to U.S.

Barrio Ubit, Lamitan, Basilan Island, at about 300 ft.
April 22, 1960.

7530 – Lapis – evidently same as Gloria – See photo. Not collected. Note persistent, blackish stamens, 2-bracts lifting simultaneously and stout fruit, pinched at the tip.

BARRIO GRANADA, BACOLOD CITY, NEGROS OCCIDENTAL, AT ABOUT 500 FT. APRIL 24, 1960 - WITH RAMON VALMAYOR.

7531- MISUI - HABIT COMPACT, WITH MANY ROSY PURPLE PSEUDOSTEMS 3 M. TALL & 28 CM. IN DIAM. BUNCH SEMI-PENDULOUS, WITH 6 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 15 CM. LONG AND 2.8 CM. IN DIAM. FRUITS REPORTED TO BE YELLOW WHEN RIPE, AND TO BE EITHER COOKED OR EATEN FRESH. NEW LEAF FLUSHED PURPLE. MIDRIB OF MATURE LEAF USUALLY GREEN. LOOKS LIKE AN AA TYPE. SEE PHOTOS. PLANTED AT COLLEGE & SENT TO U.S.

7532- ARNIBAL - HABIT COMPACT, WITH MANY PSEUDOSTEMS 3 M. TALL & 28 CM. IN DIAM. PSEUDOSTEMS ROSY PURPLE WHEN CLEANED, BECOMING BLOTCHED & BROWNISH WITH AGE. BUNCH HORIZONTAL OR SEMI-PENDULOUS, WITH 7-9 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 13 CM. LONG & 2.5 CM. IN DIAM. FRUITS YELLOW WHEN RIPE. BUD REDDISH PURPLE. NEW LEAF FLUSHED PURPLE ON LOWER SURFACE. MIDRIB OF MATURE LEAF GREEN. LOOKS LIKE AN INARNIBAL AA TYPE. SEE PHOTOS. PLANTED AT COLLEGE AND SENT TO U.S.

7533 - BINALATONG - HABIT COMPACT, WITH MANY BLACKISH PSEUDOSTEMS 4.2 M. TALL & 32 CM. IN DIAM. BUNCH PENDULOUS, WITH 9 HANDS, THE INDIVIDUAL FINGERS NOT SPLAYED AND 15 CM. LONG AND 2.5 CM. IN DIAMETER. FRUITS YELLOW WHEN RIPE. MALE BUD DARK PURPLE. NEW LEAF & MIDRIB OF MATURE LEAF GREEN. LOOKS LIKE AN AAA TYPE & MAY BELONG WITH THE ROBUST DALAMAY-SENORAS. SEE PHOTOS. PLANTED AT COLLEGE, BUT NOT SENT TO U.S. COMPARE WITH 7387.

BARRIO PANUBIGAN, SLOPES OF MOUNT CANLA-ON, NEGROS ORIENTAL, AT ABOUT 2500 FT. APRIL 25, 1960 - WITH RAMON VALMAYOR.

7534 - CARDABA - HABIT COMPACT, WITH MANY VIGOROUS, MOSTLY GREEN PSEUDOSTEMS 4.5 M. TALL & 34 CM. IN DIAM. BUNCH PENDULOUS, WITH 9-10 HANDS, THE INDIVIDUAL FINGERS UP TO 20 CM. LONG AND 6 CM. IN DIAM. FRUITS OF THIS FORM GREEN WHEN IMMATURE, BUT THERE IS A SILVERY VARIETY PRESENT & HAS BEEN SEEN IN THE BACOLOD MARKETS. BUD PURPLE. SEE PHOTOS. PLANTED AT COLLEGE & SENT TO U.S. - A VERY SUPERIOR FORM THAT SHOULD BE DISTRIBUTED THROUGHOUT THE AMERICAN TROPICS, SINCE IT WILL PRODUCE 3-4 TIMES AS MUCH FRUIT PER ACRE AS OUR CHATO OR HORSE PLANTAIN. AN ABB TYPE.

BARRIO ULAY, VALLEHERMOSO, NEGROS ORIENTAL, AT ABOUT 350 FT. APRIL 25, 1960 - WITH RAMON VALMAYOR.

7535- BANGAN - HABIT COMPACT, WITH A FEW PSEUDOSTEMS 4 M. TALL & 30 CM. IN DIAM. PSEUDOSTEMS PALE YELLOW WHEN STRIPPED, BECOMING REDDISH BROWN WITH AGE. BUNCH PENDULOUS, WITH 7-8 HANDS, THE INDIVIDUAL FINGERS NOT SPLAYED AND 16 CM. LONG AND 3.5 CM. IN DIAM. FRUITS YELLOW WHEN RIPE. BUD NOT SEEN, LOOKS LIKE AN AAA TYPE. FREQUENTLY CONFUSED WITH LACATAN DUE TO THE PALE ORANGE, FIRM PULP, BUT DIFFERS IN THE LAX FOLIAGE AND MORE LEATHERY SKIN. SEE PHOTOS - PLANTED AT COLLEGE, BUT NOT SENT TO U.S.

HACIENDA LUGO, VALLEHERMOSO, NEGROS ORIENTAL - AT ABOUT 300 FT. MAY 5, 1960 - COLLECTED BY RAMON VALMAYOR.

7536- OROQUIETA - HABIT COMPACT, WITH MANY PSEUDOSTEMS 3.8 M. TALL & 29 CM. IN DIAMETER. PSEUDOSTEMS GREEN WITH REDDISH BROWN BLOTCHES. BUNCH PENDULOUS, WITH 5 HANDS. FRUITS YELLOW WHEN RIPE. LOOKS LIKE A SMALLER PINIPITA - AN ABB TYPE. PLANTED AT COLLEGE, BUT NOT SENT TO U.S. NO PHOTO.

7537 - Granatis - Habit compact, with many pseudostems 4 m. tall & 31 cm. in diam. Pseudostems green, with brown blotches. Bunch semi-pendulous, with 5 hands. Fruits reported to be yellow when ripe. Looks like a smaller Mundo. Apparently a BB type. Planted at college, but not sent to U.S. No photo

Hacienda Florida, near San Carlos, Negros Occidental, at about sea level. May 8, 1960 - Collected by Ramon Valmayor.

7538 - Malo-Po - Habit compact, with many pseudostems 2.5 m. tall & 18 cm. in diam. Pseudostems light green, with many large, brown blotches. Bunch pendulous, with 5 hands, the individual fingers 8 cm. long and 3 cm. in diameter, with a thin, yellow skin and a pronounced short beak or bottle neck at the tip. Looks like an AA type. Planted at college, but not sent to U.S. - Have photo

7539 - Bulukakao - Habit compact, with many pseudostems 3.7 m. tall & 28 cm. in diam. Pseudostems green, with reddish markings. Bunch pendulous, with 4 hands, the individual fingers 24 cm. long & 7 cm. in diam. Yellow when ripe. Looks like an AAB Horse plantain. Planted at college but not sent to U.S. - No photo.

British North Borneo

Bolong - Puaran District, West Coast Residency at about 50 ft. June 30, 1960 Alluvial Plain

2-7540 Pisang Mulik (Maolin) (Hotel) — Stooling habit compact with many pseudostems 2 m. in height and 15 - 18 cm. in diameter. Pseudostems purple, ageing yellowish green with reddish brown blotches. Bunch, pendulous with 5 hands - the individual fingers 12 cm. long and 3.5 cm. in diameter. Fruit yellow when ripe also said to split when ripe. Male bud, purple - 1 bract lifting at a given time. Looks very much like Saging Bata and is probably an A A type. (Sent to the U.S. but not planted at Puaran)

2-7541 Pisang Susu - Stooling habit compact with many pseudostems - 3.5 m. in height and 24 cm. in diameter. Pseudostems, mostly pale greenish yellow Bunch, pendulous with 4-5 hands - the individual fingers 15 cm. long and 5 cm. in diameter. Fruit yellow when ripe. Male bud - not seen. Looks like an A A A type - said to be highly regarded locally as a desert type banana. (Sent to U.S. but not planted at Puaran)

2-7542 Pisang Kerbau - Stooling habit compact with many pseudostems — 3.5 m. in height and 28 cm in diameter. Pseudostems - mostly green. Bunch pendulous with 4 hands - the individual fingers splayed 24 cm. in length and 6.5 cm. in diameter. Fruit yellow - green when immature - cooked. Male bud - purple. Looks like an ABB type; very much like Simmonds "Bluggoe", close to Philippine "Matavia"; but

possibly not identical. A saba type, senso latu, but not very close. - said to have a few seeds.
(Sent to U.S. and planted at Puaran)

2-7543 Pisang Labuan - Stooling habit compact with many pseudostems - 4 m. in height and 26 cm. in diameter. Pseudostems - mostly green. Bunch pendulous with 4 hands - the individual fingers splayed - 22 cm. long and 6 cm. in diameter. Fruit silvery when immature. Male bud - purple. A silvery fruited form of #7542. Looks like an ABB type. Very close to the silvery form of "Mataria". Said to have few seeds. (Sent to U.S. and planted at Puaran)

Kampong Marabahai - Puaran District - West coast Residency - 50 ft. - June 30 1960 Alluvial Plain

2-7544 Pisang Malacca - Stooling habit compact with many pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems, green - flushed pinkish near the base. Bunch, pendulous - 8 hands the individual fingers ageotropic, 15 cm. in length and 3 cm. in diameter. Fruit yellow - usually cooked but can be eaten fresh. Male bud, purple. Looks ~~rather like "Labuan" and probably an AAB type. Pseudostems usually solitary, with a group of latent suckers at the base. May be the same as those collected in southern Palawan "Paitan"~~
~~(Sent to U.S and planted at Puaran)~~
very much like "Katali" - probably an ABB type
(Sent to U.S. - not planted at Puaran).

Alluvial plain
Kampong Manunggui - Kotah Belud - West Coast Residency, N. Borneo - about 100 ft. July 1, 1960.

2-7546 Ponggong - Stooling habit compact with many pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems, purple when stripped, ageing blackish. Bunch, pendulous with 3-5 hands, the individual fingers ageotrophic - 17 cm in length and 3.5 cm. in diameter. Fruit, yellow when ripe. Male bud, purple, not imbricate. Looks like an AAA type, only in minor details different from "Gloria". Mature fruits seen in market look like the common green red.
(Sent to U. S and planted at Puaran)

2-7545 Kalapeh - Stooling habit compact with few pseudostems - 3 m. in height and 28 cm. in diameter. Pseudostems, mostly pale yellowish green. Bunch, pendulous, with 5 hands - the individual ~~hands~~ fingers splayed 28 cm in length and 6 cm. in diameter. Fruit yellow when ripe, usually cooked but can be eaten fresh. Male bud - purple or streaked yellowish. Looks rather like "Laknau", and probably an AAB type. Pseudostems usually solitary, with a group of latent suckers at the base. May be the same as that collected in southern Palawan "Paitan." (Sent to U. S and planted at Puaran.)

2-7547 Pisang Rajah - Stooling habit compact with many pseudostems - 4.5 m. in height and 30 cm. in diameter. Pseudostems, reddish brown on lower

half, green above. with 6 hands the individual fingers, ageotropic, 16 cm. in length and 3 ½ cm. in diameter. Fruit yellow when ripe - the pulp, firm, sticky, orange, rather coarse textured. Male bud, dark purple, imbricate at tip, two bracts commonly lift simultaneously - Looks very much like the Philippine "Gloria". Probably an ABB type.
(Sent to U.S but not planted at Puaran)

Kampong Lebakongad, Kotah Belud, West Coast Alluvial plain Residency, N. Borneo - about 100 ft. - July 1, 1960.

2-7548 Kablayan - Stooling habit compact with many pseudostems - 3.5 m. in height and 30 cm. in diameter. Pseudostems - mostly green, turning blackish with age. Bunch - pendulous with 6 hands - the individual fingers, splayed, 15 cm. long and 6 cm. in diameter. Fruit, yellow when ripe. Male bud - not seen. Looks very much like "Susu". Probably an AAA type
(Planted at Puaran - not sent to U.S.)

Kampong Mongolis, Mile 32 - Kota Belud Road - West Coast Residency, N. Borneo about 600 ft. - July 1, 1960
Rolling hills

2-7549 Pisang Hijau (Ambon?) - Stooling habit compact with many pseudostems. - 3 m. in height and 30 cm. in diameter. Pseudostems, green with blackish blotches. Bunch, pendulous with 6 hands - the individual fingers, ageotropic, 18 cm. long and 4 cm. in diameter. Fruit yellow when ripe. Male bud, reddish purple. Looks like an AAA type - may be "Pisang Ambon" (Gros Michel) or the yellow form of "Bungulan" but is not completely typical of either. (Sent to U.S. and planted at Tuaran)

Kampong Mesapol, Sipitang District, Interior Residency, West Coast, N. Borneo - about 50 ft. - July 5, 1960
Coastal plain

2-7550 Pisang Kura Kura - Stooling habit compact with many pseudostems - 2 m. in height and 30 cm. in diameter. Pseudostems, green with blackish blotches. Bunch, pendulous, with 8 hands the individual fingers ageotropic, 20 cm. long and 5 cm. in diameter. Fruit yellow when ripe. Male bud purple. A typical "Robusta" cavendish AAA type. Superficially "identical with those seen in Taiwan - also called "Pisang Hong Kong" (Sent to U.S. and planted at Tuaran)

2-7551 Pisang Pagutai - Stooling habit wide-spreading with many pseudostems 1.6 m. in height and 8 cm in diameter, Pseudostems, green with 6 hands, the individual fingers, splayed, 18 cm. long and 3.5 cm. in diameter. Fruit, silvery when immature. Male bud - pink with yellow tips. Forms thickets along R.R. right-of-way becoming increasingly common near Beaufort and southward to Weston and Sipitang, taking the place of Heliconia in the Western Hemisphere. Apparently "Musa Gracilis."
(Sent to the U.S. and planted at Tuaran)

Kampong Seputul, Sipitang District, West Coast
Interior Residency N. Borneo - about 50 ft. - July 6, 1960
Bank of Mengalong River

2-

2-7552 Pisang Babal - Stooling habit compact, with many pseudostems - 3 m. in height and 4.5 cm. in diameter. Pseudostems, green. Bunch, pendulous with 8 hands the individual fingers, splayed, 15 cm. long and 6 cm. in diameter. Fruit, yellow when ripe - eaten fried or boiled. Male bud - greenish yellow with purple margin on outer surface - reddish purple within. A variant saba type, probably ABB, differing principally in the yellowish male bud (Sent to U.S. and planted at Tuaran)

Kampong Sindumin, Sipitang District West Coast
Interior Residency N. Borneo - about 50 ft. July 6, 1960.
Bank of Mengalong River

2-7553 Pisang Punjuk - Stooling habit compact with many pseudostems - 2.5 m. in height and 15 cm. in diameter. Pseudostems, green ageing blackish. Bunch, horizontal, with 5 hands, the individual fingers, ageotropic, 16 cm. long and 3 cm. in diameter. Fruit yellowish green when ripe - flesh yellowish. Male bud, dark purple. An AA type probably identical with "Pisang Lilin". Looks like a smaller and more slender form of "Morong Datu" and has a similar inflorescence with persistent male flowers. (Sent to U.S. and planted at Tuaran)

Sindumin, West Coast Interior Residency; Banks of Mengalong River, N. Borneo - about 50 ft. July 6, 1960

2-7554 Pisang Mas Changgar - Stooling habit compact with few pseudostems - 4 m. in height and 28 cm. in diameter. Pseudostems, black. Bunch, horizontal with 5 hands - individual fingers splayed - 8 cm. long and 2.5 cm. in diameter. Fruit yellow when ripe said to be cooked. Male bud, purple. Looks like a very small fruited AA type. Not common. (Sent to U.S. and planted at Tuaran.)

Kampong Luagan, Sindumin District, Interior Residency, West Coast N. Borneo - 50 ft. - July 6, 1960.
Bank of Mengalong River

2-7555 Pisang Pisang - Stooling habit compact with many pseudostems - 3.5 m. in height and 26 cm in diameter. Pseudostems green, ageing black, Bunch, horizontal with 5 hands - individual fingers 12 cm. long and 2.5 cm. in diameter. Fruit yellow when ripe. Male bud pinkish purple. Looks like an AA type. Less vigorous and more open handed than the "Pisang Pisang" seen on the road to Kota Belud. (Sent to U.S. and planted at Tuaran)

2-7556 Pisang Pembaga Ikal - Stooling habit compact with few pseudostems - 3 m. in height and 25 cm. in diameter. Pseudostems, pinkish green. Bunch, horizontal with 4 hands - individual fingers,

ageotropic, 15 cm. long and 2.5 cm. in diameter. Fruit, reddish, Male bud, purple. Looks like an A A type of the general green-red alliance.
(Sent to U.S. and planted at Puaran)

Kampong Kawane, Sipitang District, Interior Residency, West Coast, N. Borneo - 100 ft - July 6, 1960
Bank of Mengalong River

2-7557 Pisang Raja Pata - Stooling habit compact with many pseudostems - 4 m in height and 30 cm. in diameter. Pseudostems, mostly green in age - purplish when stripped. Bunch, pendulous with 8 hands - the individual fingers splayed 18 cm long and 5 cm. in diameter. Fruit, yellow. Male bud, purple. Looks like an ABB type, possibly identical with "Pisang Rajah Merah" but said to differ in color of pulp and in its weak leaf petioles which break easily.
(Sent to U.S. and planted at Puaran)

Kampong Pangong, Tenom District, Interior Residency West Coast, N. Borneo - about 650 ft - July 8, 196
Valley of Padas River

2-7558 Pisang Kayan - Stooling habit compact with many pseudostems - 3.5 m. in height and 32 cm. in diameter. Pseudostems, purplish when stripped. Bunch, pendulous with 4 hands - the individual fingers, ageotropic, 15 cm. long and 5 cm. in diameter. Fruit, yellow - usually cooked but can be eaten fresh - has a few seeds.

Male bud, reddish purple - 2 bracts lift simultaneously. Looks like an AAB or possibly AAA type - rather like an off-beat, beat-nick "Gloria" or perhaps a "green-red." (Sent to the U.S. but not planted a Puaran)

Kampong Angan Angan, Tenom Dist. Interior Residency, West Coast, N. Borneo - about 650 ft. - July 8, 1960
Valley of Padas River

2-7559 Pisang Lamak Manis - Stooling habit compact with few pseudostems - 4 m. in height and 28 cm. in diameter. Pseudostems - purplish ageing blackish. Bunch, horizontal with 9 hands - the individual fingers, splayed, 14 cm. long and 3 cm in diameter. Fruit yellow. Male bud reddish purple - 2 bracts lift simultaneously. An AA type - very like some of the Inarnibals from the Philippines.
(Sent to U.S. and planted at Puaran)

2-7560 Pisang Telor - stooling habit compact with few pseudostems - 2.5 m. in height and 28 cm. in diameter. Pseudostems - pale green with blackish blotches. Bunch, horizontal - with 4 hands - the individual fingers, splayed, 7 cm. long and 6 cm in diameter. Fruit, yellow. Male bud~~t~~ Greenish-yellow. Name means "egg" - looks like an AA type - fruits very similar to Philippine "Pitogo" but plant entirely different. Full bunch photographed at Pengod on the upper Kinabatangan. July 26, 1960
(Sent to U.S. and planted at Puaran)

Padas River flood plain.

2-7561 Pisang Lambunan - Stooling habit compact with many pseudostems - 4.5 m. in height and 36 cm. in diameter. Pseudostems - green with blackish blotches - Bunch, pendulous with 6 hands - the individual fingers, ageotropic, 18 cm long and 5 cm. in diameter. Bunch, pendulous Fruit yellow, Male bud - dark purple - 2 bracts often lift simultaneously. Looks like the "Padaio Lambunao" collected in Jolo. A very robust AAA type green - red.

(Sent to U.S. and planted at Puerren)

Plain of Padas River

2-7562 Pisang Sa - siba (?) - Stooling habit compact with many pseudostems - 3.5 m. in height and 32 cm. in diameter. Pseudostems - mostly green. Bunch, pendulous, with 16 hands - the individual fingers ageotropic, 14 cm. long and 2 cm. in diameter. Fruit, yellow - eaten cooked or fresh. Male bud, purple, Looks like an AAA type (an AA type, fide Simmonds)

(Sent to U.S. and planted at Puerren)

Padas River flood plain.

Kampong Pantongan Satu - Tenom Dist. Interior Residency - West Coast N. Borneo - about 650 ft. - July 8, 1960

2-7563 Pisang Hutan - Stooling habit compact with many pseudostems - 5.5 m. in height and 30 cm. in diameter. Pseudostems - greenish yellow ageing black, Bunch, horizontal, very seedy. with 14 hands. the individual fingers, splayed, 18 cm. long and 2.5 cm. in diameter. Fruit yellow, very seedy. Male bud, greenish yellow or purple or intermediate. An AA type - probably

Musa acuminata malaccensis. Basal hands have no pollen. Forms dense thickets along river banks and on cut-over land. Bracts range in color from dark purple to pale greenish yellow with many intermediate forms which show varying degrees of purple longitudinal striping on a yellow base. (Sent to U.S. and planted at Puaran)

Halogilat Station - near mile 68/36 on Tenom Beaufort R.R. Interior Residency. West Coast N. Borneo - about 75 ft. July 9, 1960 - Rocky banks of Padas River

2-7564 Pisang Hutan (Wongkod) - Stooling habit compact with few pseudostems - 3 m. in height and 20 cm. in diameter. Pseudostems - purplish when stripped, aging blackish. Bunch, pendulous with 14 hands - the individual fingers, splayed, 8 cm. long and 2 cm. in diameter when immature. Fruit, green when immature. Male bud - butter yellow - 3 bracts lift simultaneously. A wild diploid of unknown affinities. Pseudostems very hard and fibrous. Flowers butter yellow. Bud looks like that of the Philippine "Inambak." (Sent to U.S. and planted at Puaran)

Kampong Marabahai - Puaran Dist. West Coast Residency, N. Borneo - about 50 ft. - July 13, 1960
Alluvial Plain of Puaran River

2-7565 Pisang Lawadin - Stooling habit compact with many pseudostems - 4 m. in height and 32 cm. in diameter. Pseudostems - reddish purple when stripped. Bunch, pendulous with 6 hands the individual fingers ageotropic, 17 cm. long and 4 cm. in diameter. Fruit yellow when

ripe - fruits resemble "Pisang Raja" in superficial appearance. Male bud, dark purple, very like that of Latundan. Looks like an AAB type. Not common.
(Sent to U.S. and planted at Tuaran.)

2-7566 Pisang Mas - Stooling habit compact with many pseudostems - 3.5 m. in heighth and 28 cm. in diameter. Pseudostems, reddish purple ageing reddish brown. Bunch, pendulous with 6 to 8 hands - the individual fingers splayed - 14 cm. long and 4 cm. in diameter. Fruit yellow. Male bud, reddish purple. An AA type probably identical with the Philippine "Saging Amas". A favorite dessert banana and common in the local markets. Plants conspicuous due to the very erect yellowish green leaves and brownish blotching on the pseudostems.
(Sent to U.S. and not planted at Tuaran)

Kampong Mangkaladai - Tuaran Dist. - West Coast Residency - N. Borneo - about 250 ft - July 13, 1960
Rolling hills.

2-7567 Pisang Pisang - Stooling habit compact with many pseudostems - 5 m. in height and 32 cm. in diameter. Pseudostems, green ageing black. Bunch, pendulous with 12 hands - the individual fingers, ageotropic, 15 cm. long and 3.5 cm. in diameter. Fruit yellow said to be cooked. Male bud, reddish purple. Looks like a very vigorous AA type. Said to have been introduced from Java, bunches reported to have up to 400 fingers on good land - has been more than 20 yrs. in this site without

replanting and apparently very free of disease of any type. Hand with 36 fingers photographed
(Sent to U.S. and planted at Tuaran)

Vicinity of Pinangah, Sandakan Residency, East Coast, N. Borneo - about 250 ft. - July 25, 1960 - Forested Banks of Kinabatangan River

2-7568 Pisang Wongkod (A place name) - Stooling habit, compact with many pseudostems - 5 m. in height and 34 cm in diameter. Pseudostems green ageing black. Bunch horizontal with 20 hands - the individual fingers splayed - 15 cm long and 4 cm. in diameter. Fruit - reported to be yellow and very seedy! Male bud - yellow narrowly margined reddish purple - 3 bracts lift together. Male flowers straw yellow tipped green. Pseudostems very fibrous. Same as No. 7564, but a much larger plant with a fuller bunch.
(Sent to U.S. and planted at Sandakan)

2-7569 Sipulu - Stooling habit compact with many pseudostems, 3 m. in height and 28 cm in diameter. Pseudostems, mostly green. Bunch, pendulous with 9 hands - the individual fingers, ageotropic, 24 cm. long and 3.5 cm in diameter. Fruit said to be greenish yellow when ripe. Male bud, not seen. Looks like an AA type, very similar to "Morong Latu", but with a larger bunch on a smaller plant. Not seen on the coast, to date - not common. May be Simmonds' "Pisang Jari Buaya*" "crocodile finger banana - illustrated opposite page 80. (Sent to U.S. and planted at Sandakan) -

2-7570 Rugung - Stooling habit compact with many pseudostems - 3.5 m. in length and 30 cm. in diameter. Pseudostems, mostly green. Bunch pendulous, with 7 hands - the individual fingers splayed - 18 cm. long and 6 cm. in diameter. Fruit - reported to be yellow - Male bud - not seen. Looks like an AAA type, but with a very open bunch of large curious flattened fingers. Fruit seen in agricultural office at Penom but were not able to locate plants in fruit there
(Sent to U.S. and planted at Sandakan)

Vicinity Porgod - Sandakan Residency - East Coast - Banks of Kinabatangan River - N. Borneo - about 200 ft. - July 26, 1960

2-7571 Punty Porroy - (Dusun - Punty - Pisang) "Dwarf Banana" Stooling habit compact with few pseudostems - 1.5 m. in height and 18 cm. in diameter. Pseudostems, mostly ~~and 15 cm~~ green. Bunch, horizontal with 7 hands - the individual fingers splayed - 14 cm. long and 3 cm. in diameter. Fruit - yellow when ripe. Male bud yellowish purple (pale yellow on inner surface). A dwarf AA type. Common. Rather like a smaller form of "Pisang Mas", but with more slender fingers and smaller vegetatively. (Sent to U.S. and planted at Sandakan)

2-7572 Rarangkai - Stooling habit compact with many pseudostems - 4 m. in height and 34 cm. in diameter.

Pseudostems, green turning reddish brown with age. Bunch - pendulous with 14 hands - the individual fingers, ageotropic, - 14 cm. long and 2.8 cm in diameter. Fruit, reported to be yellow. Male bud - dull purple streaked yellowish. Looks like an AA type. Probably the same as "Sa-ribu" (7562) but with stouter fingers and a different colored male bud. Both Bornean collections look very different from Simmonds' photos and from one another. (Sent to U.S. and planted at Sandakan)

Kampong Pelipan - Kinabatangan Dist. Sandakan, Residency - Banks of the Kinabatangan River. - East Coast - N. Borneo - about 200 ft. - July 27, 1960

- MUSA BECCARII

2-7573 Pisang Tingara Bulan - Standing habit compact with many pseudostems - 1.6 m. in height and 8 cm. in diameter. Pseudostems, green. Bunch, erect with 5 hands - individual fingers 18 cm long and 2.8 cm. in diameter. Fruit - yellowish green - very seedy. Male bud - brilliant orange scarlet. 2 bracts open at one time. Pure seed sent to Norwood and to Honduras. A very common wild plant occurring as isolated clumps or dense colonies along river banks, but becoming increasingly common up river. Very much like "Musa gracilis" excepting for the bract color and greater number of fingers per hand. Flowers green or orange orange-yellow. (Sent to U.S. and planted at [illegible])

2-7574 Discarded

2-7575 Pisang Saguitoy - Stooling habit compact with many pseudostems - 4 m. in height and 28 cm. in diameter. Pseudostems, green above becoming blackish - purple stripped. Bunch - horizontal with 9 hands - individual fingers splayed; 15 cm. long and 2.5 cm. in diameter. Fruit yellow - seedy. Male bud - purple. A smaller form of "Musa acuminata" subsp. seen and collected at Penom. All male buds seen here have been purple - plants and bunches average smaller than at Penom. Becomes increasingly common towards Piniangah and the head-waters of the River - as small clumps or sometimes dense colonies. Apparently always on disturbed land (old clearings or chance openings on forested river banks.)

(Sent to U.S. and planted at Sandakan)

Po Yak Estate - Lamag Dist. Sandakan Residency -
Banks of Kinabatangan River - East Coast, N. Borneo
about 150 ft. July 28, 1960

2-7576 Pisang Lambanau (Rambanau) - Stooling habit compact with few pseudostems - 4 m. in height and 33 cm. in diameter. Pseudostems, purplish when stripped ageing blackish. Bunch - pendulous with 4 hands - the individual fingers - splayed - 12 cm. long and 5 cm. in diameter. Fruit - yellow when ripe. Male bud - dark purple - 2-3 bracts often lift simultaneously. Looks like an AAA type, but with fruits about 1/3 the size of "Lambanao" seen elsewhere. A green red in any case.

(Sent to U.S. but not planted at Sandakan)

Pangkulap - Sandakan Residency - Banks of Kinabatangan River, East Coast, N. Borneo - about 250 ft. - July 27, 1960

2-7577 Durian - merah (Malay - red) (Papacan - Dayak) Forest tree to about 120 ft. in height. Fruits bright orange - (Seed sent to Lancetilla) yellow when immature. Aril bright rose red. Fruits said to open on the trees and not to fall as with the more common species. Trees usually have ladders of stakes and rotan to aid in harvesting fruit. Listed by Keith simply as "Durio sp.

Vicinity Kuamut - Sandakan Residency - Forested Banks of Kinabatangan - N. Borneo - about 250 ft. - July 27, 1960

2-7578 Kapur or Kampur - an important timber wood probably "Dryobalanops lanceolata", a dipterocarp - Seed sent to Lancetilla.

2-7579 Keruing - "Dipterocarpus sp" an important timber wood - exported to Japan. Seed collected.

2-7580 Selangan Batu - ~~This spectacular palm has been seen between Papar and Beaufort along the R.R. line on the west coast and in protected pockets on the rocky hills above Sandakan, in both instances on extremely acid white sand. Canes average about 30-40 ft. in height in mature specimens and have black-purple fruit. See photo. Seed sent to St Louis~~ May be "Shorea" or "Hopea" of the dipterocarpaceae. A tall tree, utilized for timber and exported to Japan.

Trig Hill - Sandakan Residency - N. Borneo
about 200 ft - Aug. 5, 1960

7581 Cyrtostachys Renda - this spectacular palm has been seen between Papar and Beaufort along the R.R. line, on the West Coast, and in protected pockets on the rocky hills above Sandakan. In both instances on extremely acid, white sand. Canes average about 30-40 ft. in height, in mature specimens and have black-purple fruits. See photos. Seed sent to St. Louis.

7582 Sterculia Sp. Hills above town A very attractive tree grown in Chinese dooryard for ornament. Crown very compact of simple unlobed leaves. Flowers pink in large dense pendulous panicles followed by bright scarlet fruits about 2" long. Seed sent to Honduras.

Table Estate - Tawau Dist. - Tawau Residency - N. Borneo
Elevated plain - about 300 ft. - Aug. 17, 1960

2-7583 Pisang "fostyn" - stooling habit compact with many pseudostems - 8 m. in height and 50 cm. in diameter. Pseudostems - green becoming blackish with age. Bunch - erect with 8 hands - the individual fingers splayed - 10 cm. long and 3 cm. in diameter. Fruit - brick red - very seedy. Male bud - pale yellow with purple margins and green tip. Imbricate at apex. A giant wild species (possibly "Musa Borneensis", collected by the Japanese and grown by them on a limited scale during the occupation, presumably for fiber. Male bud smooth and very like that of "Musa Textiles" in superficial appearance. May be

"Musa angustigemma" from New Guinea.
(Sent to the U.S. and planted at Tawau)

2-7584 Pacol - Stooling habit compact with many pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems mostly green. Bunch, semi-pendulous with 10 hands - the individual fingers splayed - 16 cm. long and 6 cm. in diameter. Fruit yellow - very seedy. Male bud - yellowish-purple - 2-3 bracts lifting simultaneously. Introduced from the Philippines - said to have come from Luzon. A "Butuhan" type with a large compact bunch of rather pointed fruits. (Collected seed only)

2-7585 Pisang otan? - Stooling habit compact with many pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems, yellowish green. Bunch semi-pendulous, with 9 hands - the individual fingers, splayed, 16 cm. long and 3.5 cm in diameter. Fruit yellow. pleasant, apple-like taste. Male bud - purple - imbricate at tip. Looks like an A A type. No definite name known - present name used due to resemblance to ~~a~~ wild types. Rare (Sent to U.S. and planted at Tawau)

Kampong Sunggi Apis - Tawau Dist. Tawau Residency. N. Borneo - sea level - Aug. 18. 1960 - Coastal plain

2-7586 No known name - Stooling habit compact with few pseudostems - 3.5 m. in height and 25 cm. in diameter. Pseudostems, pinkish when stripped ageing blackish.

Bunch, pendulous with 7 hands - the individual fingers, splayed, - 18 cm. long and 5.5 cm. in diameter. Fruit yellow when ripe - fruit eaten fresh - no seeds. Male bud - dull glaucous purple - 2 bracts lift simultaneously. Looks like an AAB type. Said to have been introduced from Australia. Found behind Chinese towkay store. (Sent to U.S. and planted at Tawau)

Kampong Wakuba - Tawau Dist. - Tawau Residency. N. Borneo - about 50 ft. - Aug. 18, 1960 - coastal plain

2-7587 Pisang (palinbang?) - Stooling habit - compact with many pseudostems - 3.5 m. in height and 26 cm. in diameter. Pseudostems, reddish when stripped, ageing blackish. Bunch - pendulous with 5-6 hands - individual fingers, splayed, - 18 cm. long and 3.5 cm. in diameter. Fruit yellow when ripe, Male bud - purple - acuminate. Looks like an AA type - very much like "Pisang Mulik" but with more "acuminata" male bud and longer blunter fingers. Said to have come from Indonesia. (Sent to U.S. - not planted at Tawau)

Kampong Merotai Bezar - Tawau District - Tawau Residency, North Borneo - about 300 ft. - Aug. 19, 1960
Elevated plain

2-7588 Pisang Siangil - Stooling habit - compact with few pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems, purple when stripped - reddish brown with age. Bunch - pendulous with 7 hands - the individual fingers, ageotropic - 15 cm. long and 3 cm. in diameter. Fruit yellow. Male bud purple. An A A type, much larger than the Philippine plant of the same name. (Sent to U.S. and planted at Pawaa)

2-7589 Pisang Pinang - Stooling habit compact with many pseudostems - 4.5 m. in height and 30 cm. in diameter. Pseudostems - yellowish green blotched reddish brown. Bunch, pendulous with 6 hands - the individual fingers 10 cm. long and 4.5 cm. in diameter. Fruit - yellow. Male bud - dark purple inner surface greenish. Looks like an A A type. Fruits very much like "Pelor" but in a longer - pendulous bunch - with a dark purple male bud and persistent male flowers.
(Sent to U.S. and planted at Pawaa)

2-7590 Pisang Kapi or Kasi - stooling habit compact with many pseudostems - 3 m. in height and 30 cm. in diameter. Pseudostems, green. Bunch, pendulous with 4 hands - individual fingers 24 cm. long and 5 cm. in diameter. Fruit, yellow - said to be eaten fresh. Male bud - yellowish purple or pale purple stripped with yellow. Looks like an A A B type - probably the same as the Philippine "Laknau." See also variety collected on Palawan.
(Sent to U.S. and planted at Pawaa.)

2-7591 Pisang lambak - stooling habit compact with many pseudostems - 5 m. in height and 34 cm. in diameter. Pseudostems - green ageing blackish. Bunch, pendulous with 6 hands - the individual fingers, splayed, - 16 cm. long and 6 cm. in diameter. Fruit - yellow. Male bud - not seen. Same as yellow - fruited form of "Landunas" collected in Jolo. An AAA type. (Planted at Tawau but not sent to U.S.)

2- Forested area near Kampong Kalampayan, Tawau District, River bank N. Borneo - about 200 ft. - Aug. 20, 1960

2-7592 Pisang otan - Stooling habit compact with few pseudostems - 3 m in height and 28 cm. in diameter. Pseudostems, reddish purple, ageing blackish. Bunch, horizontal - with 14 hands - individual fingers, splayed, 16 cm. long and 5 cm. in diameter. Fruit yellow - very seedy. Male bud - not seen but reported to be red. Probably the same as "Pisang Wongkod" with a smaller bunch of somewhat larger fruit. Very rare in this area due to the bunchy top eradication program. It is to be noted that we have had two reports of a red male bud for this type. (Collected seed only) sent to Boston and Honduras

Kampong Bukit Berachan - Tawau Residency - N. Borneo - about 300 ft. - Aug 27, 1960
Banks of Segama River

2-7593 Pisang Gaba - Stooling habit compact with many pseudostems - 4 m. in height and 30 cm. in diameter

Pseudostems, mostly green. Bunch, pendulous with 9 hands - the individual fingers, ageotropic - 15 cm. long and 3.2 cm. in diameter when immature. Fruit - yellow when ripe. Male bud pinkish purple, imbricate at tip. Looks like an AAA type. Peculiar in that the bracts fall very promptly so that the male bud seldom bears an expanded bract. Not unlike "Pisang Malacca" but with the bud as described above and with a more open, less regular bunch. Mature fruit not seen. (Sent to U.S. and planted at Pierson).

Segama Estate - Lahad Datu - Pawan Residency - Banks of Segama River. - about 300 ft. - Aug. 27, 1960
| Banks of Segama River

2-7594 Pisang Sagud (Dusun). - Stooling habit compact with many pseudostems - 4 m. in height and 28 cm. in diameter. Pseudostems, blackish with age. Bunch, horizontal with 7 hands - the individual fingers - splayed - 13 cm. long and 2.3 cm. in diameter. Fruit, yellow. Male bud, pale yellow margined pale purple. A small fruited AA type - like that found near Ranau and on the Kinabatangan but with somewhat smaller fruit. Taken because of low elevation. Buds often purple. (Seed only - sent dry + wet)

Lahad Datu - Segama Road - Pawan Residency - N. Borneo - about 200 ft. - Aug. 27, 1960 - coastal plain.

2-7595 Pisang Belalai Gagah "Elephant trunk" - Stooling habit compact with few pseudostems - 3 m. in height and

28 cm. in diameter. Pseudostems, green. Bunch, pendulous with 20 hands - the individual fingers, splayed, - 10 cm. long and 2.5 cm. in diameter. Fruit, yellow. Male bud, pinkish purple - 2 bracts open simultaneously. Looks like an AAA type. Differs from "Sa-ribu" and "Rasangbai" in the much more compact bunch. Very rare on this coast - said to have been recently imported from near Jesselton. This is the famous 1000-fruited banana of Malaya. (Sent to U.S.)

Tamparuli Track - Ranau District - West Coast Residency, North Borneo - 1800 ft - 5600 ft - Sept. 1, 1960
Mountain slopes.

2-7596 Pisang Hutan (jungle) (Punti tagatay) Dusun - stooling habit compact with few pseudostems - 4 m. in height and 28 cm. in diameter. Pseudostems, reddish purple becoming blackish. Bunch, horizontal with 6-20 hands - the individual fingers, 17 cm. long and 2.5 cm. in diameter. Fruit yellow when ripe - very seedy. Male bud - reddish-purple - 2 bracts often lift simultaneously. This is the familiar "Acuminata microcarpa" that we have seen elsewhere but differs in the reddish purple male bud and in the striking white waxy bloom that is found on about 40% of the young plants. The single example found with basal flowers had no pollen, which duplicates the situation previously seen near Tenom. Plants particularly in the juvenile phase, with broad leaves and generally with the aspect of the cultivated variety. Leaf petioles with a very conspicious waxy bloom, which is also present in a much reduced concentration on the lower leaf surface. Leaf petioles sometimes pink. Corresponds to the waxy type of "Acuminata" described by Simmonds from Malaya. (Collected seed only)

Mile 7, Ranau - Pamparuli Road - West Coast Residency - N. Borneo - 3200 ft. to 5800 ft - Sept. 2, 1960
Stream bank clearing, in Forest.

2-7597 Punti tagutoy - stooling habit compact with many pseudostems - 5 m. in height and 25 cm. in diameter. Pseudostems, reddish purple, ageing blackish. Bunch, horizontal with 9 hands - the individual fingers, splayed, 10 cm. long and 3.5 cm. in diameter. Fruit - yellow when ripe. Male bud - dark reddish purple with black margins. Looks very much like "Musa textilis" but with exceptionally large fruit. Foliage yellowish green and very conspicious from a distance. (Sent to U.S. and planted at Puarana)

2-7598 Punti tagutoy Hillside - Stooling habit compact with many pseudostems - 3 m. in height and 18 cm. in diameter. Pseudostems, purplish ageing blackish. Bunch - horizontal with 5 hands - the individual fingers, splayed, - 6 cm. long and 2 cm. in diameter when immature. Fruit green - very immature. Male bud, reddish-purple - flushed white at base - 3 bracts lift simultaneously. Male bud imbricate only at the very tip. Bracts shiny - leaves yellowish green. Plant looks like a hybrid between "Acuminata microcarpa" and "Musa textilis". Rare only two examples seen. (Sent to U.S. and planted at [illegible])

2-7599 Pisang Mountain slope Hijau Embun - Stooling habit compact with many pseudostems - 5 m. in height and 30 cm. in diameter. Pseudostems reddish purple, ageing black. Bunch, pendulous, with 9 hands - the individual fingers, ageotropic - 18 cm. long and 5 cm. in diameter. Fruit yellow when ripe. Male bud dark purple - 2 bracts sometimes lift together. Looks like an AAA type. Probably "Pisang Ambon" but a-typical in the very dark male bud, and in the completely pendulous rachis. (Sent to the U.S. and planted at [illegible])

Ansip Road, Keningau Dist. Interior Residency, West Slope - N. Borneo - about 900 ft. - Sept. 8, 1960
Valley of Pegalan River

2-7600 Punti Sai (Pensiangan - Murut) Punti Binei (Pegalan Murut) - Stooling habit compact with many pseudostems - 5 m. in height and 30 cm. in diameter. Pseudostems reddish purple, ageing blackish. Bunch, pendulous to semi-pendulous with 18 hands - the individual fingers - splayed - 16 cm. long and 2.5 cm. in diameter. Fruit yellow. - very seedy. Male bud, pale yellow to purple. Thickets of very robust plants, very variable in height, bunch, fingers, size, bract color etc. An "acuminata microcarpa" type.

Very like that seen at Penom. New growth not glaucous. Leaf petiole often dark red. (Seed only)

Kampong Amip, Keningau Dist. - Interior Residency - Flood plain of the Pegalan River - N. Borneo about 900 ft.
Sept. 8, 1960

2-7601 Punti' Pisu Puan (Murut) - Stooling habit compact with many pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems - reddish ageing purplish black. Bunch, pendulous with 6 hands - individual fingers, ageotropic, 18 cm. long and 3.5 cm. in diameter. Fruit, yellow when ripe. Male bud, dark purple - 2 bracts lift simultaneously. Looks like an AAB type. Probably the same as that collected near Pawan. Without a common name (#7586). (Sent to U.S. and planted at Puaran)

2-7602 Punti' Suling (Murut) - Stooling habit compact with many pseudostems - 4.2 m. in height and 32 cm. in diameter. Pseudostems, green ageing blackish. Bunch, pendulous with 10 hands - the individual fingers, ageotropic, - 16 cm. long and 3.2 cm. in diameter. Fruit, yellow. Male bud, purple - strongly corrugated. Looks like an AAA type. (Sent to U.S. and planted at Puaran)

Banks of Pegalan River

2-7603 Pisang Pelor - Stooling habit compact with many pseudostems - 5 m. in height and 34 cm. in diameter. Pseudostems, green ageing blackish. Bunch, pendulous, with 8 hands - the individual finger, splayed, 13 cm.

long and 6 cm. in diameter. Fruit, yellow. Male bud, dark purple - inner surface, greenish. Same as "Pisang Pinang" # 7589 - from Tawau. - See photo. Looks like an AA type. (Sent to U.S. and planted at Puaran)

Kampong Kemabong, Tenom Dist. - Interior Residency - Banks of Padas River - N. Borneo - 500 ft. - Sept. 10, 1960

2-7604 Pisang Susu - Stooling habit compact with many pseudostems - 4 m. in height and 32 cm. in diameter. Pseudostems, mostly green with blackish blotches. Bunch, pendulous, with 10 hands - the individual fingers, splayed, 18 cm. long and 6.2 cm. in diameter. Fruit, yellow. Male bud, pinkish purple. Looks like an AAA type. Very robust - showy because of waxy bloom. Fruits larger and better quality than usual "Susu". Should be compared with "7541."
(Sent to the U.S. and planted at Puaran)

Kampong Agu - Tenom Dist. - Banks of Padas River - Interior Residency, N. Borneo - about 500 ft. - Sept. 10, 1960

2-7605 Punti Mundo (Murut) - Stooling habit - compact with many pseudostems - 6 m. in height and 30 cm. in diameter. Pseudostems, reddish purple, aging black. Bunch, pendulous with 9 hands - the individual fingers, splayed, 16 cm. long and 4.2 cm. in diameter. Fruit, dark red when immature - ripens brownish yellow. Male bud, dark reddish purple - ox-blood red. - 3 bracts lift together. Looks like a very massive "Pisang Raja" excepting for the red fruits. Probably an ABB type. Stripped bracts of blood red. Male bud eaten as a vegtable. (Sent to the U.S. and planted at Puaran)

Limbawang Experimental Station - Beaufort Dist. - Coastal plain - Interior Residency - N. Borneo - about 100 ft.
Sept. 12. 1960

2-7606 Pisang nangka (Malaya - meaning jack-fruit) Stooling habit, compact with many pseudostems - 3.2 m. in height and 30 cm. in diameter. Pseudostems, mostly green; reddish purple at the base when stripped. Bunch, pendulous, with 6 hands - the individual fingers, ageotropic, - 20 cm. long and 5 cm. in diameter. Fruit, yellow when ripe - said to be sourish - usually fried - tastes rather like "jack-fruit." Male bud, pinkish purple. Looks like an AAB type, Rare. Introduced from Malaya.
(Sent to the U.S. and planted at Puaran)

Kampong Limbawang - Beaufort Dist. - coastal plain - Interior Residency - N. Borneo - about 50 ft. - Sept. 12, 1960

2-7607 Pisang Kelat - Stooling habit - compact with few pseudostems - 3.5 m. in height and 30 cm. in diameter. Pseudostems, mostly green. Bunch, semi-pendulous with 4-8 hands - the individual fingers, splayed - 16 cm. long and 3.5 cm. in diameter. Fruit, yellow when ripe - slightly astringent. Male bud, pinkish purple - very like "Malacca". Looks like an AAB

type. Very common near "Kampong Pintas". Should be compared with "Pisang Gaba" #7593, from Lahad Datu. (probably identical) Also seen near "Tanjong Aru" R.R. Station on outskirts of Jesselton.
(Sent to U.S. and planted at Tuaran)

Kampong Pintas - Beaufort Dist. - Coastal plain - Interior Residency - N. Borneo - about 50 ft. - Sept. 12, 1960

2-7608 Pisang Sa-ribu - Stooling habit compact with few pseudostems. 3.8 m. in height and 30 cm. in diameter. Pseudostems, mostly green. Bunch, pendulous with 20 hands - the individual fingers, ageotropic, the individual fingers, 16 cm long and 2.6. cm. in diameter. Fruit, yellow. Male bud, pale purple - streaked yellowish. Looks like an AAA type. Collected before at Tenom # 7562 an on the Kinabatangan # 7572.
(Planted at Tuaran and sent to the U.S.)

2-7609 Pisang Pawak - Stooling habit - compact with many pseudostems - 5.5 m in height and 40 cm in diameter. Pseudostems, mostly green. Bunch, pendulous with 9 hands - the individual fingers, splayed, 20 m. long and 5.2 cm. in diameter. Fruit, yellow - very seedy. Male bud, purple - 3 bracts expand simultaneously. Otherwise known as "Penawar" - said to have been ~~known~~ grown in wartime as a source of sugar. (fruits crushed and boiled) "Penawar" said to mean "medicine". Looks like a BB type. Widely

distributed but never common.
(Sent to the U.S. and planted at Puerto)

Kampong Klias Baru, Beaufort Dist. - Coastal plain - Interior Residency - N. Borneo - about 50 ft - Sept. 12, 1960

2-7610 Pisang Ruti - stooling habit compact with few pseudostems - 3 m. in height and 28 cm. in diameter. Pseudostems, mostly green. Bunch, pendulous with 5 hands - the individual fingers, splayed, - 24 cm. long and 5.5 cm in diameter. Fruit, reported to be whitish. Male bud, reddish purple streaked yellow. - 2 bracts open at once. Looks like an AAB type. Very much like the Philippine "Paitan #7522" from Palawan or Laknan. Fruiting pseudostem usually solitary, with a nest of latent suckers at the base, which must be moved to a new location to develop properly.
(Sent to the U.S. and planted at Puerto)

Kampong Pintas - Beaufort Dist. - Coastal plain - Interior Residency - N. Borneo - about 50 ft. - Sept. 12. 1960

2-7611 Pisang Mas Hotel - stooling habit - compact with many pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems, reddish purple ageing blackish. Bunch, pendulous with 20 hands - the individual fingers, splayed, - 15 cm. long and 5 cm. in diameter. Fruit, yellow. Male bud - not seen. Looks like an AAA type.
(Sent to the U.S. and planted at Puerto)

2-7612 Pisang Tiga-bulan (3 months) - stooling habit, compact with few pseudostems - 3 m. in height and 28 cm. in diameter. Pseudostems, reddish purple, ageing blackish. Bunch, horizontal with 9 hands - the individual fingers, splayed, - 13 cm. long and 3 cm. in diameter. Fruit, yellow. Male bud - dark purple. Looks like an AA type.
(Sent to the U.S. and planted at Tuaran)

2-7613 Pisang Batuan - Stooling habit compact with many pseudostems, 4 m. in height and 30 cm. in diameter. Pseudostems, reddish purple - blackish with age. Bunch pendulous with 10 hands - the individual fingers, geotropic 15 cm. long and 2.5 cm in diameter. Fruit, yellow. Male bud, dark purple - rachis arches like "Hijau". Looks like an AAA type. New leaf flushed purple. Fruits with a very pronounced bottle tip (Sent to U.S. & planted at Tuaran)

Kampong Penangol, Kudat District, Small interior valley, West Coast Residency, N. Borneo, about 600 ft. Sept. 27, 1960

2-7614 Punti kampong - Stooling habit solitary with few suckers at the base. Pseudostems, yellowish green. ~~Bunch, pendulous~~ - 3.2 m. in height and 28 cm. in diameter. Bunch pendulous with 4 hands, the individual fingers, splayed 8 cm long and 4 cm (immature) in diameter, Fruits, yellow when ripe. (fruits said to be cooked) Male bud dark purple - like "Keling" but with 3 bracts lifting together. Looks like an AAB type. Unusual in the male bud. Has a single pseudostem and nest of latent suckers. (Sent to U.S. and planted at Tuaran)

Kudat - Coastal Plain - West Coast Residency, N. Borneo
Sea Level - Sept. 27, 1960. RUNDUS DUSON

2-7615 Pisang Masak - Stooling habit compact with few pseudostems 4 m. in height and 30 cm. in diameter. Pseudostems yellowish green. Bunch horizontal with 4 hands - the individual fingers, splayed 13 cm. long and 4 cm. in diameter. Fruit yellow when ripe. Male bud - dark purple with waxy bloom. Looks like a B.B. Type. Probably the same as that collected at Zamboanga but with a yellower pseudostem and weaker suckering habit. (Planted at Tuaran & sent to the U.S.)

Kampong Mattonggong - Kudat District - Valley of the Mattonggong River - West Coast Residency - about 150 ft.
Sept. 28, 1960

2-7616 Punti Perasok Sumoroy - Stooling habit compact with few pseudostems. - 3 m. in height and 28 cm. in diameter. Pseudostems mostly green with blackish markings. Bunch semi-pendulous the individual fingers, splayed 15 cm. long and 2.5 cm. (immature) in diameter. Fruit, yellow when ripe. Male bud, yellowish purple. Looks like an AA Type. (Sent to U.S. and planted at Tuaran)

2-7617 Punti Perasok Barul - Stooling habit compact with few pseudostems - 3.5 m. in height and 30 cm. in diameter. Pseudostems, mostly green. Bunch, horizontal with 7 hands,

The individual fingers 13 cm. long and 2.5 cm in diameter. Fruits, yellow. Male bud - pale purple - inner bract surface pale yellow. Looks like an AA type. Compare with (Punti porong) #7571 and (Mulik #7540).
(Planted at Tuaran and sent to the U.S.)

Kampong Gomon - Mattonggong River Valley - West Coast Residency, N. Borneo - 150 ft. - Sept. 28, 1960
RUNGUS DUSUN

2-7618 Punti Pambalazan - Stooling habit compact with many pseudostems - 4 m. in height and 30 cm in diameter. Pseudostems, purplish when stripped ageing greenish yellowish. Bunch - not seen. Looks like an AA type with very erect leaves.
(Sent to U.S. and planted at Tuaran)

~~2-7619~~

Sarawak

Mile 42, Simanggang Road - First Division, Forested Hills of Butik Lasan - Sarawak - 400 ft. - Oct. 12, 1960

2-7619 Pisang Utan, Barak Punked or Barak Gayu (Land Dayak) - Stooling habit compact with few pseudostems - 2 m. in height and 15 cm in diameter. Pseudostems green, with dark reddish purple markings. Bunch erect with 8 hands the individual fingers 5 cm long and 2 cm. in diameter. Fruit whitish - very seedy. Male bud - pink to mauve with whitish blotches, tip green. *Musa violascens.* - has 10 male flowers per bract. Rare. Planted at Tarat and sent to U.S.

Kampong Karanji - Bau District - First Division - Banks of Karanji River - Sarawak - 200 ft. - Oct. 12, 1960

7620 - Pisang Pahun (Paun) - Stooling habit compact with many pseudostems 5 m. in height and 40 cm in diameter. Pseudostems green, ageing blackish. Bunch pendulous - the 9 hand individual fingers compact, ageotropic 18 cm long and 4 cm in diameter. Fruits yellow when ripe. Male bud, purple. Looks like an AAA type. Planted at Tarat + sent to U.S.

Mile 42 - Simanggang Rd. - First Division - Forested slopes of Bukit Lasan, Sarawak - 400 ft. - Oct. 13, 1960

2-7621 Barak Bakadan or Pankadan (Land Dayak) - stooling habit compact with few pseudostems - 6 m. in height and 40 cm in diameter. Pseudostems, reddish purple, ageing blackish. Bunch horizontal with 20 hands the individual fingers 20 cm. in length and 4.5 cm. in diameter. (splayed)

Fruit yellow, when ripe - very seedy. Male bud - red to rose red with darker red tips and margins. Inner bract surface yellow. 4-5 bracts open at once. Flowers pale yellow with green tips. Base of the petiole with a conspicuously developed corrugated wing at point of contact with the pseudostem. Typical material of Musa Borneensis as described by Simmonds and Cheesman same as Pisang Wongkod (Musa Reflexa) from North Borneo which is simply a color form. Planted Tarat and sent to the U.S.

Simuja Pass - Bukit Lasan - Semanggang Road - First Division - Clearings Lasan Hill - 400 ft. - Oct. 13, 1960

2-7622 Barak Kesi (Land Dayak) or Pisang Kera - Stooling habit compact with few pseudostems - 3.2 m. in height and 28 cm in diameter. Pseudostems reddish purple - ageing black. Bunch horizontal to ascending with 11 hands - the individual fingers splayed - 13 cm. long and 2.2 cm. in diameter. Fruit yellow, when ripe - seedy. Male bud - purple to white - heavily striped purple. A poor form of Musa acuminata microcarpa - basal hands without pollen. Sent to U.S. only.

Tarat Agricultural Station - First Division, Sarawak - Interior Valley - 200 ft. - Oct. 14, 1960

2-7623 Pisang Madu - Stooling habit compact with few pseudostems - 3.2 in height and 30 cm. in diameter. Pseudostem mostly yellowish green. Bunch semi-pendulous with 10 hands - the individual fingers compact, ageotropic - 15cm

long and 2.5 cm. in diameter. Fruit yellow when ripe. Male bud dark purple - inner bract surface yellow - 3 to 5 bracts open at one time. Looks like an AA type. Male flowers persistant.
Sent to the U.S.A.

2-7624 Pisang embun - stooling habit compact with many pseudostems - 4 m. in height and 32 cm. in diameter. Pseudostems mostly green, Bunch pendulous with 10 hands. The individual fingers compact, ageotropic 20 cm. long and 3.8 cm. in diameter. Fruit yellow when ripe - like Gros Michel. Male bud pinkish-purple. Leaf petiole normally margined, red. Looks like an AAA type - very common. Sent to U.S. only

2-7625 Pisang Bontal - stooling habit compact with few pseudostems 3.2 m. in height and 28 cm. in diameter. Pseudostems pinkish purple - ageing brownish. Bunch horizontal with 7 hands - the individual fingers 12 cm. long and 3 cm. in diameter - compact and splayed. Fruit yellow when ripe. Male bud pinkish purple - inner bract surface yellow. Looks like an AA type. Probably collected before but difficult to place. New leaf green. Sent to U.S.A.

2-7626 Pisang pisang - stooling habit compact with few pseudostems - 4 m in height and 30 cm. in diameter. Pseudostems yellowish green ageing brownish. Bunch horizontal with 10 hands the individual fingers compact, ageotropic - 15 cm. long and 3.5 cm. in diameter. Fruit yellow when ripe. Male bud - pinkish purple. Looks like an AA type.
Sent to the U.S.

Vicinity Engkilili - Banks of Batang Ai - Second Division, Sarawak - 100 ft. - Oct. 21, 1960

2-7627 Pisang Gegibuaya ? (Rotan) - stooling habit compact with few pseudostems - 3.2 m. in height and 2.5 cm in diameter. Pseudostems reddish purple, ageing blackish. Bunch pendulous with 5 hands - individual fingers compact, ageotropic - 18 cm. long and 2.8 cm in diameter. Fruit yellowish white when ripe. Male bud - dark purple with yellowish streaks - inner bract surface pale yellow - male flowers persistent. Looks like Pisang lilin or Pisang rotan. An AA type in any case.

Planted at Tarat and sent to U.S.

Kampong Pasar Pandak - Santubong, First Division, Sea Coast Village - Mouth of Sarawak River - 0 ft. - Oct. 25/60

2-7628 Pisang Embun - stooling habit compact with few pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems - reddish purple, becoming blackish. Bunch pendulous with 8 hands - the individual finger compact ageotropic - 20 cm. long and 4.5 cm. in diameter. Fruit yellow when ripe. Male bud pinkish purple. Flavor excellent - better than Gros Michel. A very good AAA type with very large fingers of excellent quality common in Kuching market.

Sent to U.S. - not planted Tarat

Kampong Brawong - Fifth Division - Banks of Batang Limbang - about 100 ft. - Sarawak - Nov. 3, 1960

2-7629 Pisang Pubaran (Bisaya) - Stooling habit compact with many pseudostems - 4.5 m. in height and 28 cm in diameter. Pseudostems mostly green with a few reddish blotches. Bunch horizontal with 12 hands - the individual fingers, splayed, 13 cm. long and 3.5 cm. in diameter. Fruit yellow when ripe - said to be edible. Male bud - greenish yellow with purple margins - two bracts lift at one time. A very large fruited form of Musa textilis. Central bud of pseudostem said to be used by the Bisayas as a cooked vegetable. Fiber used for cord. Fruits said to be edible. Fairly common. Planted at Pusat and sent to the U.S.

Pulau Selaping - Fifth Division - Island in Batang Limbang - Sarawak - about 100 ft. - Nov. 3, 1960

2-7630 Pisang Utan - Stooling habit compact with few pseudostems - 2 m. in height and 13 cm in diameter. Pseudostems mostly green. Bunch horizontal with 3-5 hands - the individual fingers, splayed, 12 cm. long and 2.2 cm. in diameter. Fruit yellowish white. Male bud rose pink shading to darker rose on margins - tips green - 2 bracts open at a given time. Looks like a natural hybrid between Musa textilis and Musa violascens. Apparently nearly sterile. Planted at Pusat and sent to the U.S.

Nanga Medamit - Banks of Batang Limbang - Fifth Division, Sarawak - about 100 ft. - Nov. 5, 1960

2-7631 Pisang Linki or Guntu (Iban) - Stooling habit compact with many pseudostems - 2.5 m. in height and 12 cm. in diameter. Pseudostems mostly green. Bunch erect with 7 hands the individual fingers 18 cm long and 3 cm. in diameter. - ageotropic - Fruit whitish with heavy purple blotches. Said to be somewhat bitter. Male bud - rose pink - darker on margins - tip green. Probably Musa gracilis (has 6-7 flowers per bract) Form known as "Linki" with white fruit - said to be sweet to the taste. Form known as "Guntu" with purple blotched fruits - said to be somewhat bitter.

Planted at Parat and sent to the U.S.A

Kampong Medait - Banks of Batang Limbang - Fifth Division, Sarawak - Nov. 6, 1960 - about 50 ft.

2-7632 Pisang Bungai (Malay) - Stooling habit compact with few pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems pinkish, becoming dark brown with age. Bunch semi-pendulous with 10 hands the individual fingers ageotropic 14 cm. long and 2.5 cm. in diameter. Fruit yellow. Male bud - dark blackish purple - inner bract surface pale yellow. Looks like an A.A. Type. Usually has only one sucker per pseudostem. Planted at Parat and sent to the U.S.

2-7633 Pisang Penawar - Stooling habit compact with many pseudostems - 4.5 m. in height and 34 cm. in length. Pseudostems mostly green. Bunch semi-pendulous, with 8 hands the individual fingers, splayed, 14 cm. long and 5.5 cm. in diameter. Fruit yellow, very seedy. Male bud - greenish purple - very heavy surface bloom - inner bract surface reddish purple. 3-4 bracts lift at a given time. Looks like a B.B type. Always cultivated. Pseudostem cabbage eaten as a cooked vegetable. Bud also cooked and eaten. Fruits eaten either ripe or green for upset stomach. Sent to U.S. not planted at Parat.

2-7634 Pisang Mas Rambunau - Stooling habit compact with few pseudostems, 4.5 m. in height and 40 cm. in diameter. Pseudostems reddish purple, ageing blackish. Bunch pendulous with 4 hands the individual fingers, agetropic, 12 cm. long and 5 cm. in diameter. Fruit yellow. Male bud dark purple - inner surface purplish yellow 4-5 bracts lift together. Pseudostems usually with a single sucker. Looks like an AA, type.

Planted at Parat and sent to the U.S.

Kampong Sungei Poyan - Limbang - Banks of the Sungei Poyan - Fifth Division, Sarawak - 50 ft - Nov. 7, 1960.

2-7635 Pisang Pisang - Stooling habit compact with many pseudostems - 5 m. in height and 34 cm. in diameter. Pseudostems - reddish purple, becomming black with age. Bunch - horizontal to semi - pendulous with 12 hands the individual fingers, agetropic, 14 cm. long and 3.2 cm. in diameter. Fruit yellow. Male bud - reddish purple - 1 bract lifts at a given time. Looks like an AA type - very common. Sent to U.S. - not planted at Parat.

Long Pengoa
~~Punti Loasok (Pagal)~~ - Banks of the Batang Trusan - Fifth Division, Sarawak - about 300 ft. - Nov. 9. 1960

2-7636 Punti Loasok (Pagal) - Stooling habit compact with many pseudostems - 4 m. in height and 32. cm. in diameter. Pseudostems mostly green. Bunch semi-pendulous, with 7 hands the individual fingers, splayed, 14 cm. long and 2.5 cms. in diameter. Fruit yellow when ripe. Male bract, pale purplish yellow - inner bract surface yellow. Looks like an AA type. Rare. Planted at Tarat and sent to the U.S.A.

2-7637 Punti Kuidipit (Pagal) - Stooling habit compact with many pseudostems - 3.2 m. in height and 29 cm. in diameter. Pseudostems reddish purple becoming reddish brown. Bunch, semi-pendulous with 8 hands, the individual fingers, splayed, 14 cm. long and 2.5 cm. in diameter. Fruit yellow when ripe. Male bud purple - inner bract surface, pale purple. Looks like an AA type. Quite similar to "Pisang Otel" but different in the bract color, bud shape and more attenuate tips of the fingers. Planted at Tarat and sent to the U.S.

Kampong Samariang - coastal plain, near Sarawak River - First Division, Sarawak - 50 ft. - Nov. 17, 1960

2-7638 Pisang Sa-ribu - Stooling habit compact with few pseudostems 2.5 m. in length and 28 cm. in diameter. Pseudostems green. Bunch, pendulous with 35 hands the individual fingers splayed - 10 cm. long and 2.5 cm. in diameter. Fruit yellow. Male bud, yellowish purple. 3-4 bracts open together. Looks like an A.A.A type. Same as that collected at Lahad Datu in N Borneo. Planted at Tarat & sent to U.S.A.

Satok Road, Kuching - First Division - Flood Plain of Sarawak River - Sarawak - 50 ft. - Nov. 17, 1960

2-7639 Pisang Palembang (?) - Stooling habit compact with many pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems yellowish green ageing black. Bunch horizontal with 4 hands, the individual fingers, splayed, 12 cm. long and 3 cm. in diameter. Fruit yellow. Male bud, pinkish purple. Looks like an AAB type. Has rather the look of a "Pisang Raba"(?) from N. Borneo. Not the same as the "Palembang" from N. Borneo. Planted at ~~[illegible]~~ Perak and sent to the U.S.

Dater Road #3 Kuching - Floodplain of Sarawak River - First Division, Sarawak - about 30 ft. - Nov. 17, 1960

2-7640 Pisang Manurun (?) - Stooling habit compact with many pseudostems - 4.2 m. in height and 30 cm. in diameter. Pseudostems pinkish ageing blackish. Bunch pendulous with 9 hands the individual fingers, ageotropic, 30 cm. long and 5 cm. in diameter. Fruit yellow - excellent quality. Male bud, pinkish purple. A very superior form of Pisang Ambon with a black pseudostem and very large fruit. Skin very thick and leathery. An AAA type. Sent to U.S but not planted at Perak.

Green Road, Kuching - Flood plain of Sarawak River - First Division, Sarawak - about 30 ft. - Nov. 17, 1960

2-7641 Pisang Hijau - Stooling habit compact with few pseudostems - 4 m. in height and 28 cm. in diameter. Pseudostems pinkish ageing blackish. Bunch horizontal - with 5 hands - the individual fingers, splayed, 14 cm. long and 3 cm. in diameter. Fruit green when ripe. Bract color not seen. Looks like an AA type. Fruit said to be like "Pisang Pisang" but to be edible when still green in color. Midrib of leaf and new leaf pinkish. Only one sucker per pseudostem. Sent to U.S. but not planted at Parat.

Tanjong Tahap Agricultural Station - Banks of the Batang Baram near Long Ikang - Fourth Division, Sarawak - 100 ft - Nov. 23, 1960

2-7642 Pisang Buntal - Stooling habit compact with many pseudostems - 2.6 m in height and 26 cm. in diameter. Pseudostems mostly green, developing brownish blotches. Bunch horizontal to semi-pendulous with 4-6 hands - the individual fingers, splayed, 11 cm. long and 2.5 cm. in diameter. Fruit yellow when ripe. Male bud pale purple - inner bract surface pale yellow. Looks like an AA type, similar to that grown under the same name at Parat, but apparently not identical.

Sent to U.S. and planted at Parat

2-7643 Pisang Keretas - Stooling habit compact with many pseudostems - 3 m in height and 28 cm. in diameter. Pseudostems reddish purple, mostly green with age. Bunch horizontal with 12 hands - the individual fingers, ageotropic, 12 cm. long and 2.5 cm. in diameter. Fruit yellow. Male bud pale purple - inner bract surface pale yellow. Looks like an AA type, very like "Pisang Madu" but apparently differing in the more nearly horizontal bunch, paler male bud, fewer bracts open at a given time and fewer persistent male flowers.

Sent to U.S. but not planted at Parat

-ULU BARAM (PENAN AKAH)

Long Boku - Sungei Akah - Fourth Division, Sarawak
about 400 ft.? - Nov. 24, 1960

2-7644 Balak Klaw (Penan) - Stooling habit compact with few pseudostems - 2.5 m in height and 31 cm. in diameter. Pseudostems, mostly green. Bunch semi-pendulous with 5-9 hands - the individual fingers splayed - 12 cm. long and 2.7 cm. in diameter. Fruit yellow when ripe. Male bud purplish yellow - inner bract surface yellow. Look like an AA type. Should be compared with "Pisang Madu". Planted at Paret and sent to U.S.

Banks of Sungei Akah - Fourth, Division Sarawak.
about 400 ft - Nov. 24, 1960

2-7645 Pu-te La-Baum? (Kayan) - O-ti Aru? (Kayan) - Stooling habit compact with few pseudostems - 3.5 m. in height and 30 cm. in diameter. Pseudostems pinkish purple, becoming blackish. Bunch pendulous with 12 hands the individual fingers, ageotropic, 14 cm. long and 2.5 cm. in diameter. Fruit yellow when ripe. Male bud - purple. Looks like an AA type. Should be compared with "Pisang Madu". Planted at Paret and sent to U.S.

Rumah Aketo - Banks of Batang Baram - Fourth Division, Sarawak - about 200 ft.? - Nov. 25, 1960

2-7646 Pu-te Wey (Kayan) - Stooling habit compact with few pseudostems - 5.5 m. in height and 40 cm. in diameter. Pseudostems pinkish, becoming brownish with age. Bunch pendulous with 18 hands - the individual fingers, ageotropic, 16 cm. long and 3 cm. in diameter.

Fruit yellow when ripe. Male bud yellowish purple - inner bract, surface pale yellow. Looks like a giant form of "Pisang Bungai". Probably an AA type.

Sent to U.S. but not planted at Tarat

BARAM River

Batu Belah - Banks of Batang Putoh - Fourth Division, Sarawak - about 200 ft. ? - Nov. 26, 1960

2-7647 Pin-yo' I-king (Berawan Kenyah) - Stooling habit compact with many pseudostems - 4.5 m. in height and 30 cm. Pseudostems reddish - becoming black with age. Bunch horizontal - with 9 hands - the individual fingers, ageotropic, 13 cm. long - 2.3 cm. in diameter. Fruit yellow when ripe. Male bud - yellow, margined purple. A very curious AA type so superfically similar to the black stemmed yellow budded form of "Musa Acuminata" Macrocarpa" to suggest that it maybe a seedless mutant of that plant and a local development. Not seen elsewhere. Planted at Tarat and sent to U.S

Sungei Salawan - Ulu Baleh - steep slopes on margins of landslides - Third Division, Sarawak - 500 ft. - Nov. 30, 1960

2-7648 Inkiringoak - Stooling habit - compact with many pseudostems - 3.5 m. in height and 6 cm. in diameter. Pseudostems yellowish, becoming black with age. Bunch semi-pendulous with 7 hands, the individual fingers splayed - 12 cm. long and 1½ cm. in diameter, Fruit greenish yellow (very waxy) very seedy. Male bud - rich yellow to rich orange on tips and margins. 1 bract lifts at a time. If this is a Musa it certainly must be an undescribed species. Looks very much like a Heliconia in general habit and aspect. If new it might well be called "Musa heliconioides if that name does not prove to be pre-occupied. Occasional but not as pure stands. Grows inter-mixed with the white, waxy form of "Musa Acuminata" "Microcarpa" and #7649. Bracts strongly imbricate. Flowers green. Planted at Tarat and sent to U.S.

— MUSA HIRTA BECC.

2-7649 Gunto or Guntu - Stooling habit compact with many pseudostems - 3 m. in height and 15 cm. in diameter. Pseudostems - dark violet purple ageing blacker. Bunch erect with 4-8 hands the individual fingers splayed, 7 cm. long and 4 cm. in diameter. Fruit green (immature) very hairy, very seedy, quite a bit of pulp. Sometimes eaten. Male bud pale, dull purple - 4 to 5 bracts open at once. Looks very much like a natural hybrid between "Musa Borneensis" and "Musa Violascens" (short-fingered type) but perplexing in that it occurs in pure stands, has the blackish corrugated papery auricles at the base of the leaf petiole typical of "Musa Borneensis" but the erect spike and pinkish bracts of "Musa Violascens". The velutinous nearly globose but faceted fruits are a mystery. Perhaps a new species. Locally common on steep hills, usually in old clearings or on the margins of land-slides. Has about 6 flowers per bract. Leaves dried and used by upriver Dayaks for cigarette wrappers. Planted at Tarat and sent to U.S.

Rumah Sigau - Ulu Baleh - Banks of Batang Baleh
Third Division, Sarawak - about 500 ft. - Dec. 1, 1960

2-7650 Pisang Rw-aut (Ruew-aut) Iban - Stooling habit compact with few pseudostems - 5 m. in height and 30 cm. in diameter. Pseudostems pinkish green ageing blackish. Bunch horizontal with 6-9 hands the individual fingers ageotropic, 15 cm. long and 3¼ cms. in diameter. Fruit yellow. Male bud reddish purple - 1 bract open at a given time. Looks like an AA type with very erect leaves. Typical plants have only one sucker per pseudostem. Bracts imbricate at the tip. Looks like "Pisang Bontal" and should be compared with it but seems to differ in the imbricate bracts and weak suckering habit. Should also be compared with "Pisang Gaba" from North Borneo.

Planted at Tarat and sent to U.S.

Manga Mujong - Banks of Batang Baleh - Third Division, Sarawak - about 400 ft. - Dec. 1, 1960.

2-7651 Pisang Lengkei (Iban) - Stooling habit compact with many pseudostems - 3.5 m. in height and 30 cm. in diameter - Pseudostems pinkish becoming mostly green. Bunch horizontal with 16 hands the individual fingers, ageotropic, 18 cm. long and 2.6 cm. in diameter. Fruit yellow when ripe. Male bud whitish, heavily streaked dark purple. One of the many forms of "Musa Acuminata Microcarpa" but with very conspicuous waxy white bloom and unusually large fruit.

Sent to U.S. not planted at Tarat.

2-7652 Pisang Lengki (Iban) - Stooling habit compact with few pseudostems - 2.8 m. in height and 22 cm. in diameter. Pseudostems pinkish becoming black. Bunch horizontal with 6 hands the individual fingers splayed - 10 cm. long - 2.1 cm in diameter. Fruit yellow when ripe. Male Bud pale whitish yellow with narrow purple margins. One of the many variations of "Musa Acuminata Microcarpa" with a nearly white male bud and small fruits. Note the very strong similarity to # 7649.

Sent to U.S. but not planted at Tarat

Singapore

Vicinity Bukit Timah - Fire Station - Inland valley - Singapore - 100 ft. - Jan. 12, 1961

2-7653 "Su Min Chio" - stooling habit compact with many pseudostems, 2.5 m. in height and 25 cm. in diameter - wax - very slight. Pseudostems reddish purple, ageing blackish. Bunch pendulous to semi-pendulous with 9-10 hands. the individual fingers splayed, 13 cm. long and 3.8 cm. in diameter. Fruits reported to be yellow when ripe - no seed. Male bud - reddish purple - 1 bract open at a given time. Looks like an AA type. Not common - only one well-established clump seen. Note elongate persistent style + compare with other photo. Midrib of mature leaf red. Underside of new leaf green. (6)

Planted at the Botanical Gardens + sent to the U.S.

2-7654 Bi Chio (Chinese) Bee Chio = Kelat ?? - stooling habit compact with few pseudostems - 4 m. in height + 32 cm. in diameter.

Pseudostems pinkish-yellow-ageing glossy black, wax - none. Bunch - not seen. Male bud, not seen. Looks like an AA type very similar in general vegetative aspect to either the Philippine "bungulan" ~~or~~ some of the wild "acuminatas". Midrib of leaf and undersurface of foliage consistently green. Should be compared with 7655 and 7657 (3)

Planted at the Botanical Gardens and sent to U.S.

Duchess Road - Singapore, Singapore - Inland valley - about 100 ft. - Jan. 12, 1961

2-7655 Chai Ge Chio or Pisang Masak Hijau - stooling habit compact with many pseudostems 4 m. in height and 30 cm. in diameter. Pseudostems reddish purple, ageing glossy black, wax - slight. Bunch pendulous with 9 hands the individual fingers, ageotropic, 20 cm. long and 4.5 cm. in diameter. Fruits yellow. Male bud not seen. A vigorous AAA type, apparently identical with the black-trunked form of "pisang ambon" from Borneo. Note the glossy black color and the strongly developed scarious margins that become an expanded collar at the junction of the petiole with the pseudostem. (6)

Planted at the Botanical Garden and sent to the U.S.

Tampanis Road - Interior valley - Singapore, Singapore about 100 ft. - Jan. 12 - 1961

2-7656 Pu - Chu/Chew - Chio or Pisang Rotan - stooling habit compact with many pseudostems - 3 m. in height and 28 cm. in diameter. Pseudostems green, developing brownish no wax blotches. Bunch pendulous to semi-pendulous with 5 hands. the individual fingers ageotropic, 16 cm. long and 2.8 cm. in

diameter. Fruit pale yellow. Male bud - pale greenish white.
(5) An AA type - differing from Simmonds "Pisang Rolin" and
Bornean material only in the greenish white male bud.
Planted at the Botanical Gardens and sent to the U.S.

Woodland Road - Mile 11 - Inland valley - Singapore, Singapore
about 50 ft. - Jan. 13, 1961
2-7657 Pisang Munyit - Pisang Kelat - Bee/Bi Chio - stooling
habit compact with many pseudostems - 3 m. in height +
28 cm. in diameter. Pseudostems pale pink ageing no-wax glossy black.
Bunch, horizontal with 6 hands the individual fingers 10 cm
(5) long and 2.7 cm in diameter (splayed.) Fruit yellow. Male bud -
reddish purple - 1 bract lifting at a given time. Looks like an
AA type with a small bunch of rather poor fruit. Should be
compared with 7654 but seems to differ in the paler basic
pseudostem color. Also compare with "Pisang lujaw" # 7620
+ # 7641 from Sarawak. - Pisang Kelat - should be compared
with "Pisang Tahun from Borneo. Planted at Bot. Gar. + sent to U.S.

Bukit Panjang Circus - Inland plain - Singapore,
Singapore - about 50 ft. - Jan. 13, 1961
2-7658 Pisang Kuni or Kari - stooling habit compact with many
pseudostems - 3 m. in height and 30 cm. in diameter. Pseudostems
green. wax - slight Bunch pendulous with 5 hands, the individual fingers
(5) ageotropic, 18 cm. long and 4.8 cm. in diameter. Fruit yellow.
Male bud - purple - waxy bloom - 1 bract open at a time. Looks
like an AAB type. Usually grown by Tamils and said to be
used for curry - possibly identical with AAB type collected
at O. "#7421-1" Albay in the Philippines and should be compared with
it. Planted at Bot. Garden and sent to U.S.

~~at~~ Cluny Hill - gentle slope - Singapore, Singapore
about 100 ft. - Jan. 13, 1961

2 7659 None known - "Pisang Mas" - stooling habit compact with
few pseudostems - 4.2 m. in height and 30 cm. in diameter.
Pseudostems wax - none pinkish becoming glossy brown with age Bunch
pendulous with 6 hands - the individual fingers 10 cm.
(5) long and 3½ cm. in diameter. Fruit yellow. Male bud - dark
purple - 1 bract expanded at a given time - inner bract surface
yellow. Looks like an A A type. Should be compared with
"Pisang Pinang" from Borneo. Compare with # 7663 - 7589 -
7603. Planted at Bot. Garden and sent to the U.S.

Bukit Panjang Road - interior valley - Singapore, Malaya -
50 ft. - Jan. 13, 1961

2 - 7660 Chief Chi - Ge - Chio or Pisang Masak Hijau - stooling
habit compact with many pseudostems - 3.5 m. in height
and 30 cm. in diameter. Pseudostems wax - pronounced especially on new growth mostly green with a
(5) few blackish blotches. Bunch pendulous with 9 hands -
the individual fingers ageotropic - 16 cm. long and 3 cm. in
diameter. Fruit yellow. Male bud not seen. An AAA type
identical with green form of "Pisang Ambon # 7654") from
Borneo. Planted at Bot. Garden and sent to the U.S.

Bukit Panjang Circus - interior valley - Singapore,
Malaya - about 50 ft. - Jan. 13, 1961

2 - 7661 Pisang Boyan (40 day banana) see Chop Gee Chio. -
stooling habit compact with many pseudostems - 3 m.
in height and 16 cm. in diameter. Pseudostems wax - pronounced. reddish
purple ageing brown. Bunch horizontal with 6 hands -

the individual fingers splayed - 10 cm long and 3.5 in diameter.
(6) Fruit yellow. Male bud, reddish purple - 1 bract expanded at a given time. A dwarf A A type - apparently identical with "Inarnibal co " from the Philippines - midrib pinkish - a new leaf flushed purple.
Planted at Botanical Gardens and sent to U.S.

Kampong Coronation - interior valley - Singapore, Malaya - about 100 ft. - Jan. 14, 1961
2-7662 Pisang Assam or Kim Chio - stooling habit compact with many pseudostems - 5 m. in height and 32 cm. in diameter. Pseudostems wax - slight pinkish, becoming green with blackish blotches.
(5) Bunch semi-pendulous with 10 hands - the individual fingers, ageotropic, 15 cm. long and 4 cm. in diameter. Fruit yellow - glutinous, pale orange, pleasantly acidulous. Male bud dark purple, waxy bloom. Looks like an A A. Type. Midrib of younger leaves usually pink. New leaf flushes purple and petioles with a distinctive purplish bloom. Should be compared with some of the tall Galamay Señora types from the Philippines but apparently differing in the less directly pendulous bunch and possibly in bract color. Planted at Bot. Gardens + sent to U.S.

Bukit Timah Road - 8 miles - Inland valley - Singapore - about 100 ft. - Jan. 14, 1941
2-7663 Pang Chio (Pisang Mas?) - stooling habit compact with many pseudostems - 3.5 m. in height and 30 cm. in diameter. Pseudostems wax - none. mostly green with some pale brownish blotches.
(5) Bunch pendulous with 6 hands the individual fingers splayed - 9 cm. long and 2.8 cm. in diameter. Fruit yellow. Male

Malaya

bud reddish purple. An AA type, with yellowish green foliage
Resembles "Pisang Mas" excepting for the pendulous bunch and
greener pseudostem. Should be compared with "Pisang Pinang"
(7589 - 7603) from Borneo and with (7659) and "Pisang Mas"
(7566). Planted at Bot. Gardens. and sent to U.S.

Bukit Panjang Road - Mile 12 - Inland valley - Singapore
about 100 feet - Jan. 14 - 1961

2-7664 Pisang Kapas or Eng Chio - stooling habit compact with many
pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems no wax.
pinkish, ageing black, Bunch horizontal to semi-pendulous with 9 hands
the individual fingers splayed the individual fingers 13 cm. long and
(3) 3 cm. in diameter. Fruit yellow. Male bud reddish purple -
1 bract open at a time - falls very promptly. Looks like an A.A.
type. Should be compared with "Pisang Gaba" (7593 - 7607 - 7641)
from Borneo - also "Pisang Pisang (7626 - 7635)
Planted at Botanical Gardens and sent to U.S.

Forest Research Institute - Kepong - Selangor, Malaya -
Interior valley - about 300 ft. - Jan. 30, 1961

2-7665 None known (Pisang Abu Siam) - stooling habit compact with
many pseudostems 3.2 m. in height and 32 cm. in diameter. Pseu-
dostems wax - moderate green. Bunch horizontal with 2-3 hands - the individual
fingers, splayed. 20 cm. long and 7 cm. in diameter. Fruit
(6) yellow when ripe - used for frying or for curries. Male bud - none
produced. Looks like an ABBB type. Apparently identical with
the Philippine "Piparot" Race. Compare with (7348) (7390)
"Piparot". Planted at Serdang and Bot. Garden and
sent to the U.S

Bukit Mulang Aboriginal Camp - Steep hillside - Selangor, Malaya - about 600 ft. - Jan. 30, 1961

2-7666 Pisang Mangka - stooling habit compact with few pseudostems - 3 m. in height and 30 cm. in diameter wax-slight Pseudostems pinkish - developing some brown blotches. Bunch pendulous with 5-6 hands the
(4) individual fingers ageotropic to splayed - 19 cm. long and 6 cm. in diameter. Fruit yellow when ripe. Acid-sweet glutinous. Odor and flavor of "Jack Fruit". Male bud reddish purple - 1 to 2 bracts open together. Looks like an AAB type. Should be compared with (7606) the same as the "Mangka" collected at Beaufort. Many fruits conspicuously flattened. Unusually large fingers for a dessert-type banana not in the cavendish-ambon alliance. Planted at Sing. & U.S.

Bukit Mulang Forest Reserve - hillside - Selangor, Malaya about 300 ft. - Jan. 30, 1961

2-7667 Pisang Pop - stooling habit compact with many pseudostems - 3 m. in height and 18 cm. in diameter. wax-none Pseudostems purple, streaked greenish with age. Bunch erect with 8 hands the individual
(5) fingers splayed - 11 cm. long and 4 cm. in diameter. Fruit green when ripe - very seedy. Male bract deep violet shading to paler at the base. "Musa violascens" - clasping leaf bases with dark brown papery corrugated auricles, as in "Musa Borneensis" and the Bornean "Guntu". 8 flowers per bract. Plant seen near Bentong sometimes with nearly white bracts (3/4 white - 1/4 pale lavender) compare with # 7619. Planted at Singapore and U.S.

Kanchong Darat, Kuala Langat Dist. - Selangor, Malaya - Coastal plain - about 50 ft. - Jan. 31, 1961

2-7668 Pisang Berangan Bunga - stooling habit compact with

wax - moderate
few pseudostems - 3.5 m. in height and 30 cm. in diameter.
(5) Pseudostems pink becoming glassy brown with age. Bunch pendulous
with 6 hands, the individual fingers ageotropic - 15 cm long and
3.2 cm. in diameter. Fruit dark yellow - ~~sweet~~ - glutinous pale
cream in color. Male bud - dark purple - apex rounded. Looks
like an AA type. Fairly common. Compare with Philippine
"Lacatan" (7383 + 7401). Planted at Singapore and sent to U.S.

Kanchong Darat, Kuala Langat Dist. - Selangor, Malaya
Coastal plain - about 50 ft. - Jan. 31, 1961

2-7669 Pisang Psoman or Poman - stooling habit compact with few
wax - none
pseudostems - 4 m. in height and 32 cm. in diameter, Pseudostems
green - Bunch pendulous with 5-6 hands the individual
(2) fingers splayed - 27 cm. long and 6 cm. in diameter. Fruit
reported to be yellow when ripe. Male bud - not seen. Looks
like an ABB type. Not common. Compare with Philippine
"Laknau" (7354) Sent to U.S.

2-7670 Pisang Lang - stooling habit compact with few pseudostems -
wax very slight.
2.8 m in height and 27 cm. in diameter. Pseudostems green.
Bunch horizontal with 4 hands - the individual fingers
(4) splayed, 22 cm. long and 6 cm. in height. Fruit yellow. Male
bud - none produced. Looks like an AAB type. Very like
"Pandok" and should be compared with it. Said to differ in
the larger bunch. Planted at Singapore and sent to U.S.

2-7671 Pisang Berangan Bisi or Besi - stooling habit compact with
few pseudostems - 2.8 m. in height and 36 cm. in diameter.
Pseudostems pink, becoming brownish with age. Bunch
wax - slight (pronounced on suckers)

pendulous with 5 hands - the individual fingers, ageotropic,
(4) 14 cm. long and 3.5 cm. in diameter. Fruit yellow - glutinous
orange - sweet. Male bud - not seen. Looks like an AA type.
Should be compared with "Berangan Bunga" 7668
Compare with Philippine "Lacatan". Planted at Singapore + U.S.

2-7672 Pisang Ayam - stooling habit compact with many pseudostems -
2 m. in height and 16 cm. in diameter. wax, moderate Pseudostems green, becoming
brownish with age - Bunch horizontal to pendulous with 5 to 6
(5) hands - the individual fingers ? (15 cm. long and 3.2 cm. in
diameter when immature - see Serdang photo) Fruit said to
be yellow. Male bud dark purple. May be either an AA or AAA.
type. Planted at Singapore and sent to the U.S.

Tan Jong Sepat, Kuala Langat Dist. - Selangor, Malaya
Coastal plain - about 25 feet - Feb. 1, 1961

2-7673 Hun-Po Ra-su or Pisang Rasa - stooling habit compact
with many pseudostems - 4.3 m. in height and 28 cm. in diameter.
Pseudostems wax - very slight reddish purple, becoming blackish with age. Bunch,
(5) horizontal with 9 hands - the individual fingers splayed - 15 cm. long
and 3 cm. in diameter. Fruit yellow. Male bud - dark purple streaked
yellow - 2 bracts opening at once - inner surface yellow. An AA type
Not common. Also called "Pisang Rasa" and "Pisang Palas". May have
(come) from Borneo. See photos of "Madu" 7632 and "Bungai" 7623.
Planted at Singapore and sent to the U.S.

Kanchong Darat - Kuala Langat Dist. - Selangor, Malaya
Coastal plain - about 50 ft. - Feb. 1, 1961

2-7674 Pisang Rotan - stooling habit compact with few pseudostems -

wax - none
3.2 m. in height and 28 cm. in diameter. Pseudostems pink,
(3) becoming blackish with age. Bunch pendulous with 6 hands -
the individual fingers, ageotropic, 20 cm. long and 3.2 cm. in
diameter. Fruit pale greenish yellow. Male bud - greenish yellow -
heavily striped dark purple. 2-3 bracts open at once. An AA type
Probably identical with "Pisang Jari Buaya. Compare with
7656. Planted at Singapore and sent to the U.S.

Mile 13, Morib Road, near Jen Jarom - Selangor, Malaya -
Interior valley - about 50 ft. - Feb. 1, 1961

2-7675 Pisang Karok - stooling habit compact with many pseudostems
wax - moderate on new growth.
4 m. in height and 25 cm. in diameter. Pseudostems mostly green -
becoming blackish with age. Bunch horizontal with 5-8
(5) hands - the individual fingers splayed - 15 cm. long and 2.4 cm.
in diameter. Fruit yellow - very seedy - Male bud clear yellow
(50% red - 50% yellow) with heavy red streaking. 1 bract opens
at a time. "Musa Acuminata Malaccensis?" - waxy coat-
ing only moderately developed. Leaf petiole dull lavender.
Midrib pink. Planted at Serdang, Singapore and sent to U.S.

Vcty. Genting Senpah Pass - Pahang, Malaya -
Hillside - about 2000 ft - Feb. 2, 1961

2-7676 Pisang Susong - stooling habit compact with few pseudostems.
wax - none
4 m. in height and 30 cm. in diameter. Pseudostems dark
violet purple ageing blackish. Bunch, horizontal with
(1) 8 hands - the individual fingers splayed - 15 cm. long and
2.2 cm. in diameter. Fruit yellow (some immature fruits
stained purple) Male bud, dark purple. "Musa Acuminata
Microcarpa"? A waxless form, with yellowish foliage

in a predominantly waxy area. Leaf petioles dark purple
midrib of new leaf pink.. Sent to U.S.

Vcty. Bukit Pingi or Tinggi - Road to Bentong - Pahang,
Malaya - Hillside - 1750 ft. - Feb. 2, 1961

2-7677 Pisang Surong - stooling habit compact with few pseudostems -
9m. in height and 34 cm. in diameter. Pseudostems, rosy pink -
becoming green with blackish blotches. Bunch horizontal
(2) with 8 hands - the individual fingers splayed - 10 cm. long and
2.5 cm. in diameter. Fruit, yellow. Male bud - yellow - 50%
streaked wine red - 1 bract open at a time. A gigantic form
of "Musa Acuminata Malaccensis" - dominant in the area.
Sent to the U.S. wax - pronounced, particularly lower leaf surface

Vicinity Bentong - Stream bank along road - Pahang.
Malaya - 300 ft. - Feb. 2, 1961

2-7678 Pisang Surong - stooling habit compact with few
pseudostems - 4.5 m. in height and 30 cm. in diameter.
wax - moderate
Pseudostems - reddish purple - becoming dark violet purple to
glossy black. Bunch horizontal - with 8 hands the
(7) individual fingers, ageotropic, 15 cm long and 2.5 cm in
diameter. Fruit, when ripe, yellow. Male bud blood red - 1
bract open at a time. Musa Acuminata Malaccensis -
typical form with waxy leaves and red bracts - seeds
larger than average - leaves with purple-blotched or
violet petioles and violet or pink midribs - compare with
glaucous, leaved form from Borneo.
Planted at Serdang and Singapore and sent to U.S.A.

Mile 53 - between Bentong and Fraser's Hill, Pahang, Malaya
hillside - 1500 ft. - Feb. 2 - 1961

2-7679 Pisang Surong - stooling habit compact with many
pseudostems - 7 m. in height and 34 cm. in diameter. Pseudostem
wax - moderate
green - blotched dark violet purple, becoming glossy black. Bunch
horizontal - with 8 hands the individual fingers, splayed, 13 cm.
(4) long and 2.6 cm. in diameter. Skin yellow when ripe. very seedy Male
bud yellow - narrowly margined red. Musa Acuminata - about
intermediate between Malaccensis and Microcarpa in development
of wax. This number is a somatic mutant which appeared
on one side of a well developed clump. All other buds red. Curious
in its close superficial resemblance to 7675 and 7677 which are
presumably genetic mutants. Planted at Singapore and sent to U.S.A.

Mile 57-7 - near the Gap and Fraser's Hill, Pahang, Malaya -
Steep hillside - 2000 ft. - Feb. 2, 1961

2-7680 Pisang Surong - stooling habit compact with few pseudostems -
7 m. in height and 30 cm. in diameter. Pseudostems rose purple,
ageing glossy black. Bunch horizontal with 6-8 hands - the
(3) individual fingers, ageotropic, 17 cm long and 2.5 cm. in diameter.
Skin yellow when ripe. Male bud - dark blackish purple
usually without an expanded bract. Musa Acuminata
Microcarpa? - no wax on lower leaf surface. Leaf petiole
dark violet and waxy - midribs dark violet to pink. Sent to U.S only.
Wax - moderate on new growth - none on lower leaf.

Mile 58 - near the Gap - Pahang, Malaya - Steep hillside -
2400 ft. - Feb. 3, 1961

2-7681 Pisang Surong - stooling habit compact with few pseudostems -
6 m. in height and 30 cm. in diameter. Pseudostems pale pink,

becoming glossy black. Bunch horizontal with 6 hands the individual fingers, splayed, 13 cm. long and 2.5 cm. in diameter. Skin reddish purple when immature and mature Male bud - dark (4) red - 2 bracts open at a time. A Musa Acuminata type - does not match any of Simmonds subspecies. Fruits flushed purplish red. Leaf petiole violet purple - midribs often pinkish. Photo buds 7676 - 7677 - 7678 - 7679 - 7680 - 7681. Fruit skin very thick fruit core very hard almost like a corncob. Seeds all sterile.
Wax - slight - confined to new suckers.
Planted at Singapore and sent to U.S.A.

Kuala Kubu Bahru - Selangor, Malaya - interior valley.
500 ft. - Feb. 3, 1961

2-7682 Pisang Boyan ? (Palembang ?) - stooling habit compact with few pseudostems - 3 m. in height and 29 cm. in diameter. Pseudostems - wax - slight - pink, ageing greenish. Bunch pendu- (6) lous with 6-7 hands - the individual fingers splayed - 15 cm. long and 3.2 cm. in diameter. Skin yellow when ripe. Male bud dark purple - inner bract yellowish - 1 open at at a time. Looks like an AA type, apparently identical with the Bornean Pisang Palembang # 7587 from Tawau and Lahad Datu. See Simmonds re: use of Palembang in Malaya.
Planted at Serdang and Singapore + sent to U.S.A.

Bukit Munchong, near Sungei Choh - Selangor, Malaya - hillside - 300 ft - Feb. 3, 1961

2-7683 Pisang Bulin - stooling habit compact with few pseudostems - 3 m. in height and 29 cm. in diameter. Pseudostems rose (5) purple, becoming green with conspicuous blackish cross hatchings. Bunch? Inflorescence - very immature - skin said to be yellow. Male bud - yellow - heavily streaked purple. Looks like

Wax - fairly pronounced on suckers.
an AAA type. No fruit but of quite distinctive vegetative
aspect. Pemuan aboriginal Kampong.
Planted at Serdang and Singapore and sent to U.S.A

Kampong Awah, mile 71 - Temerloh, Maran Road - Pahang,
Malaya - Interior valley - 200 ft. - Feb. 4, 1961
2-7684 Pisang Sexun or Sexuan - stooling habit compact with
many pseudostems - 3.5 m. in height and 26 cm. in diameter.
Pseudostems pale green becoming blackish with age. Bunch,
(4) horizontal with 6 hands the individual fingers, splayed, 12 cm.
long and 2.3 cm. in diameter. Skin yellow when ripe. Male
bud pale yellowish green. Presumably Musa Acuminata
Malaccensis - showing a color mutant from reddish purple
on part of the plant to pale green on the other. Sent to U.S.A only.
Wax - moderate on lower leaf surface

Kampong Awah, near mile 70 - Maran Road - Pahang,
Malaya - Interior valley - 200 ft? - Feb. 4, 1961
2-7685 Pisang Segun - stooling habit compact with many pseudostems
4.5 m. in height and 30 cm. in diameter. Pseudostems pinkish
wax - moderate
green, becoming glossy black. Bunch semi-erect to horizontal
(6) with 6 hands - the individual fingers splayed - 17 cm. long
and 3.5 cm. in diameter. Fruit yellow, when ripe - nearly edible
but very seedy. Male bud - reddish purple - streaked yellow
inner bract surface yellowish. Looks like an AA type. May be
a hybrid between the wild Acuminata Malaccensis and some
cultivated AA type grown nearby, or maybe a partially
parthenocarpic form of wild Acuminata. Colony of 10-12
plants - some buds greenish yellow.
Planted at Serdang and Singapore and sent to U.S.A

Mile 32¾ west of Kuantan - Pahang, Malaya - Interior
valley - 100 ft. - Feb. 5 - 1961

2-7686 Pisang Utan - stooling habit compact with few pseudostems -
1.8 m. in height and 13 cm in diameter. Pseudostems mostly green
heavily stained dark purple. wax - none. Bunch, erect with 5-6 hands, the
(6) individual fingers, splayed, 12 cm. long and 2.7 cm. in diameter.
Fruit - pale yellowish green when ripe - very seedy. Male bud - pale
lavender shading to white at the base. 3 bracts open at once.
Probably Musa Gracilis (may be Gracilis x Violascens) flowers
green - 2-6 per bract. Infrequent in forested areas back of
Kuantan to about mile 35, where it is replaced, westward by
Musa Violascens. A buffer zone to about mile 43 seems to
be occupied by both species and what would appear to be
numerous hybrids of very variable aspect.
Planted at Serdang and Singapore and U.S.A.

Kampong Batu Kasar - near - 5 miles west of Jerantut,
Pahang, Malaya - Interior valley - 400 ft. - Feb. 5, 1961

2-7687 Pisang Utan - stooling habit compact with few pseudostems -
6 m. in height and 34 cm. in diameter. Pseudostems pink-ageing
glossy black. Bunch horizontal with 10 hands the individual
(5) fingers, ageotropic, 18 cm. long and 2.5 cm. in diameter. Fruits yellow -
very seedy. Male bud - dark purple to purple streaked
yellow - inner bract surface yellowish. A very vigorous wax-
less Acuminata type - with an exceptionally large bunch
of long slender fruit. Planted at Serdang + Singapore + sent to U.S.A.
Wax - none. Lower leaf surface completely waxless.

2-7688 Pisang ~~Utan~~ Utan - stooling habit compact with many
pseudostems - 3.5 m. in height and 15 cm. in diameter. Pseudostems -
Wax - none

green - blotched reddish-purple with age. Bunch erect,
(6) with 6 hands - the individual fingers, splayed, 13 cm. long
and 3.2 cm. in diameter. Fruit greenish white when ripe. -
very seedy. Male bud - pale lavender, shading to white - 3 bracts
open at once. A very vigorous form of Musa Gracilis. Leaf
petioles with dark brown corrugated auricles as in Violascens
and Borneensis. Flowers greenish white. Sent to Serdang, Singapore + U.S.A.

Serdang Agricultural Experimental Station - Selangor, Malaya
200 ft - Inland plain - Feb. 7, 1961

2-7689 Pisang Pinang - stooling habit compact with many
pseudostems - 2.8 m. in height + 18 cm. in diameter. Pseudostems
reddish-purple, developing blackish blotches. Bunch horizontal
(3) with 6 hands - the individual fingers, splayed, 12 cm. long and
2.5 cm. in diameter. Fruit probably yellow. Male bud - dark
purple - 3 bracts open at once - inner surface purple. An
AA type - not the Pisang Pinang of Borneo. Should be compared
with 7673. Sent to U.S. only. Wax - slight

2-7690 Pisang Ampiang - stooling habit compact with many
pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems
(3) mostly green - Bunch horizontal - with 6 hands - the individual
fingers, ageotropic, 14 cm. long and 3.5 cm. in diameter. Fruit
yellow. Male bud - dark reddish-purple - 1 bract open at a time.
Looks like an AAA type. Sent to U.S. only. Wax - moderate.

2-7691 Pisang Seribu - stooling habit compact with few
pseudostems - 4 m. in height and 30 cm. in diameter.
(3) Pseudostems - mostly green - Bunch pendulous - with 30
hands - the individual fingers, splayed, 7 cm. long

and 2.5 cm in diameter. Fruit yellow when ripe. Male bud - pinkish-purple - 3 bracts open at once. May be either an AA or AAA type. Taller and with more erect leaves than Bornean specimens. Sent to U.S.A. only Wax - slight

2-7692 Pisang Pulut - stooling habit compact with many pseudostems - 2.5 m. in height and 28 cm in diameter. Pseudostems mostly green developing blackish blotches. Bunch horizontal with 6 hands the
(3) individual fingers splayed, 15 cm. long and 3.2 cm in diameter. Fruit yellow when ripe. Male bud - pinkish purple. Looks like an AA type. Should be compared with Pisang Kapas #7664. Sent to U.S.A. only. Wax - none

2-7693 Pisang Beraksa - stooling habit - compact with many pseudostems - 3.8 m in height and 28 cm in diameter. Pseudostems wax - moderate rosy-red, becoming green with blackish blotches. Bunch
(3) horizontal with 6 hands. The individual fingers, splayed, 15 cm. long and 3.2 cm. in diameter. Fruit yellow when ripe. Male bud - dark reddish-purple - 3 bracts open at once - inner surface purple. Looks like an AA type. Sent to U.S. only.

— PAKA [illegible] (TRINIDAD)

2-7694 Name not known (code ~~P.P.F.~~ P.A.K.) - stooling habit compact with many pseudostems - 3.2 m. in height and 24 cm. in diameter. Bunch horizontal - with 6 hands - the individual fingers
(3) splayed, 14 cm long and 3.2 cm. in diameter. Fruit yellow when ripe. Male bract - bright - reddish - purple - narrowly streaked yellow. 1 bract open at a time. Inner bract surface glossy reddish purple - new leaves strongly flushed reddish-purple - with reddish petioles and midribs. Looks like an AA type. Has very attractive foliage when well

Wax - moderate.
Grown. Compare with # 7653. Sent to U.S.A. only.

2-7695 Pisang Buai - stooling habit compact with many
pseudostems - 3.2 m. in height and 30 cm. in diameter.
Pseudostems - greenish-purple - blackish blotches with age.
(3) Bunch pendulous - with 5 hands - the individual fingers,
ageotropic, 17 cm. long and 3.2 cm. in diameter. Fruit
yellow when ripe. Male bud not seen. Looks like either an
AA or AAA type - compare with green stemmed Ambon. All
but one small lateral bud discarded due to borer damage.
Sent to U.S.A. only. Wax - slight

2-7696 No name known (code P.P.K.) - stooling habit compact with
many pseudostems - 4 m. in height and 34 cm. in diameter.
Pseudostems - wax - moderate - purplish-green, with dark blackish-purple
(3) blotches - Bunch - horizontal with 6 hands - the individual
fingers, splayed, 12 cm. long and 3.2 cm. in diameter. Fruit
yellow - when ripe. Male bud - dark purple - acuminate,
imbricate - 1 bract open at a time. Looks like an AB
or AA type. Compare with Rastali and Latundan. Sent to U.S.

2-7697 Pisang Pioman - stooling habit compact with few to many
pseudostems - 3.2 m. in height and 30 cm. in diameter. Pseudostems
(3) dark purplish green, becoming green. Bunch pendulous with
5 hands - the individual fingers, splayed, 18 cm long and
5.5 cm. in diameter (immature). Fruit yellow when ripe.
Male bunch - pinkish - purple - 1 bract open - like Mataria.
Looks like an AAB type. Apparently not the same as
7669 but should be compared with it. Sent to U.S.A.
Wax - moderate.

2-7698 Musa Flava - stooling habit compact with many pseudostems -
3.8 m. in height and 28 cm. in diameter. Pseudostems - yellowish-
green. No wax or very slightly at base of petioles only. Bunch
(3) horizontal with 7 hands - the individual fingers, splayed,
compact, + pedicellate, 12 cm. long and 2.3 cm. in diameter.
Fruit yellow when ripe - very seedy. Male bud - pale greenish-
yellow. A Musa Acuminata type. Completely without
purple color and with almost no wax. Does not match
Simmonds subspecies Malaccensis, to which he reduces
Musa Flava. Sent to the U.S.A

2-7699 Pisang Emas Dermayu - stooling habit compact with
many pseudostems - 3.5 m. in height and 30 cm in diameter.
Pseudostems - rose-pink, becoming yellowish green with brown
(3) blotches. Wax - none. Bunch horizontal with 3-4 hands the
individual fingers splayed, pedicellate, - 12 cm. long and
2.5 cm. in diameter. Fruit yellow when ripe. Male bud -
reddish purple. An AA type. Compare with Pisang
Mas #7566. Sent to U.S.A.

2-7700 Pisang Buloh - stooling habit compact with many
pseudostems - 3.5 m. in height and 28 cm. in diameter.
(3) Pseudostems rose-pink, blackish blotches with age. Bunch -
not seen. Wax - moderate. Looks like an AA type. Sent to U.S.

2-7701 Pisang Burok Bakul - stooling habit compact with many
pseudostems - 4 m. in height and 28 cm. in diameter. Pseudostems
dull pink, developing blackish blotches. Wax - moderate.
(3) Bunch - horizontal with 6 hands - Immature - the
individual fingers splayed, pedicellate, 16 cm. long and

28 cm. in diameter. Fruit yellow, when ripe Male bud - pinkish-purple-streaked yellow. Looks like an AA or possibly an AAA type. Probably identical with Pisang Masak Hijau. Sent to U.S.A.

2-7702 No name known (code P.A.B), stooling habit compact with many pseudostems - 4 m. in height and 30 cm. in diameter. Pseudostems dark-red, developing blackish blotches. Wax-moderate. Bunch-pendulous with 6 hands - the individual fingers, ageotropic, pedicellate - 18 cm. long and 3 cm in diameter. Fruit yellow when ripe. Male bud - pinkish-purple - rachis sigmoid. Looks like an AA or possibly an AAA type. Compare with green, trunked Pisang Ambon #7660 Sent to U.S.A.

(3)

Forested Hillside about 10 miles north of Grik - Perak, Malaya - Hillside near Sungei Rui - 650 ft. - Feb. 20, 1961

2-7703 Pisang Utan - stooling habit compact with few pseudostems. 5 m. in height and 30 cm. in diameter. Pseudostems pinkish-purple becoming glossy black - wax - none. Bunch horizontal with 12 hands, the individual fingers pedicellate, compact, ageotropic 18 cm. long and 2.3 cm. in diameter Fruit yellow when ripe. Male bud - dark purple. A large fruited form of Musa Acuminata Microcarpa, collected because of the relatively low elevation. Pseudostems with 1 sucker. Very bright, clean, disease-free foliage. Sent to U.S.A. only

(2)

Highway - about 10 miles north of Grik - Perak, Malaya

Forested Hillside - 600 ft. - Feb. 20, 1961

2-7704 Pisang Utan - stooling habit compact with few pseudostems - 5.5 m. in height and 30 cm. in diameter. Pseudostems pinkish - ageing glossy black - wax none. Bunch semi-pendulous, with 9 hands - the individual fingers pedicellate, ageotropic - 16 cm long and 2.3 cm. in diameter. Fruit yellow when ripe. Male bud - dark purple - inner bract surface yellowish. Musa Acuminata Microcarpa - a superior form with long semi-pendulous bunch. Usually one sucker per pseudostem (4)

Sent to U.S. and planted at Singapore

Langgar - about 6 miles west of Alor Star, Kedah, Malaya
Coastal Plain - 50 ft. - Feb. 22, 1961

2-7705 Pisang Mas Ayer - stooling habit compact with few pseudostems - 5 m. in height and 28 cm. in diameter. Pseudostems pinkish green, becoming glossy brown. Wax - very slight - confined to young suckers. Bunch horizontal with 6-7 hands - the individual fingers subsessile, compact, splayed - 12 cm. long and 2.6 cm in diameter. Fruit yellow when ripe. Male bud - yellowish - heavily streaked dark purple - Inner bract surface - yellowish. A small fruited A A Type. Midrib and new leaf, green. (5) Planted at Singapore + sent to U.S.

LILIN

2-7706 Pisang Lidin or Lidi - stooling habit compact with few pseudostems - 4 m. in height and 28 cm. in diameter. Pseudostems greenish, with scant blackish blotches. Wax - pronounced on young plants, lower leaf surface, very waxy. Bunch semi-pendulous with 4-6 hands - the individual fingers pedicillate, compact, ageotropic - 15 cm. long and 2.6 cm.

in diameter. Fruit yellow when ripe. Male bud red - one bract
(6) lifts at a given time. Looks like Malaccensis. A typical
example of Simmonds Pisang Lilin, Fairly common.
Bears a strong resemblance to Malaccensis. Planted at
Serdang - Singapore and sent to the U.S.A.

Tributary of Sungei Muda near Mami - Kedah, Malaya
River Valley - 300-400 ft. - Feb. 22. 1961
2-7707 Pisang Utan - stooling habit compact with few pseudostems
4 m. in height and 28 cm. in diameter. Pseudostems pale green,
becoming blackish with age. Wax - pronounced on lower
leaf surface. Bunch - horizontal with 6-10 hands - the
individual fingers pedicellate, compact, ageotropic. 8-13 cm.
(3) long and 2.2 cm. in diameter. Fruit yellow - sometimes
flushed pinkish-purple when ripe. Male bud - reddish
purple - imbricate at tip - no expanded bract. Only one
sucker per pseudostem. Leaf petiole and midrib sometimes
conspicuously pinkish. Occasionally as isolated individuals
or fairly large colonies. Seems to differ from Malaccensis
only in the imbricate bracts. (No yellow colored buds in
this area) Musa Acuminata Siamea. Sent to U.S.

New Road between Mami and Sik - Kedah, Malaya -
Stream Bank - 400 ft. - Feb. 22, 1961
2-7708 Pisang Utan - stooling habit compact with few pseudostems
7 m. in height and 32 cm. in diameter. Pseudostems pinkish -
becoming glossy black. Wax - pronounced on lower leaf
surface. Bunch - horizontal with 9 hands - the individual
fingers pedicellate, compact, ageotropic. 14 cm. long and

2.5 cm. in diameter. Fruit yellow when ripe. Male bud -
(3) pinkish purple - imbricate - 1 bract open at a time. Musa
Acuminata Siamea - from very vigorous colony on
forested hills along new highway. Between Mami and Lib.
plants average 7-8 m. to emergence of bunch
Sent to U. S. A. only.

Kampong Pokong - near Kodiang - Kedah, Malaya -
Inland plain - 50 ft. - Feb. 23, 1961.
2-7709 Pisang "Rastali" Kermian - stooling habit compact with
many pseudostems 4 m. in height and 32 cm. in diameter.
Pseudostems mostly green - developing a few blackish
markings. Wax - pronounced - lower leaf surface white.
(6) Fruit yellow wen ripe. Bunch semi-pendulous with
10 hands the individual fingers pedicellate, compact,
ageotropic - 15 cm. long and 2.8 cm. in diameter. Male bud
50-50 red and yellow - slightly imbricate. Looks like a very
vigorous, seedless (genetic???) somatic mutant of Musa Acuminata
Siamea. Only one clump seen. Leaf petiole pinkish - midrib
of newer leaves pink. Looks like an AAA type.
Planted at Serdang and Singapore + sent to U. S. A

Bukit Punjang - Kedah, Malaya - Coastal plain -
150 ft - clay loam - Feb. 23, 1961
2-7710 Pisang Utan or Biji - stooling habit compact with few
pseudostems 3.5 m in height and 28 cm in diameter.
Pseudostems greenish, becoming glossy black. Wax -
moderate. Fruit bunch horizontal with 4-8 hands the
individual fingers pedicellate, compact, ageotropic - 10-13 cm
long and 2-2.5 cm. in diameter. Fruit yellow when ripe.

Male bud nearly blood-red - sometimes to 30% yellow -
1-3 bracts lift at a time. Musa Acuminata Siamea.
This is from a locality visited by Simmonds. About 25%
with imbricate bracts. Population very variable with long
or short fingers, turbinate or elliptic buds - imbricate or
acuminate bracts - red or red and yellow color. Seed only

Kampong Gunong near Kota Bharu - Kelantan, Malaya
Coastal plain - sandy clay - 50 ft. - Feb. 25, 1961

2-7711 Pisang Perak or Perok - stooling habit compact with few
pseudostems - 3 m. in height and 28 cm. in diameter.
Pseudostems purple - glossy black with age. Wax - moderate.
6 Bunch horizontal, with 3-5 hands - the individual fingers
subsessile, compact, splayed, 11 cm. long and 3.5 cm. in diameter.
Fruit yellow when ripe. Male bud dark purple - like Microcarpa
no expanded bract. Looks like an AA type quite like Acuminata
Microcarpa in superficial appearance. Planted at Serdang,
Singapore and sent to U.S.A

Kampong ~~Cher~~ Cherang Ruli near Pasir Puteh, Kelantan,
Malaya - Interior plain, sandy loam - 100 ft. - Feb. 25, 1961

2-7712 Pisang Jari Buaya - stooling habit compact with few
pseudostems - 3 m. in height and 22 cm in diameter.
Wax - none
Pseudostems pinkish purple - blackish blotches with age.
Bunch pendulous with 5 hands the individual
1 fingers pedicellate, compact, ageotropic 18 cm. long and 2.8 cm.
in diameter. Fruit yellowish-green when ripe. Male bud
streaked dark purple on a yellowish base. AA type - differs
from "Rotan" only in the somewhat larger bunch, and longer
fingers. Rare. Pseudostems usually with one well

developed sucker. Planted at Singapore and U.S.A

Kampong Nibong - west of Tanah Merah - Kelantan, Malaya.
Interior valley - sandy loam - 100 ft - Feb. 26, 1961
2-7713 Pisang Jari Buaya or Pindit or Pindi - stooling
habit compact with many pseudostems - 4 m. in height
and 24 cm. in diameter. Pseudostems pinkish, becoming
4 blackish with age. Wax slight. Bunch pendulous with 7 hands
the individual fingers pedicellate, compact, ageotropic - 20 cm.
long and 3.5 cm. in diameter. Fruit yellowish-green when ripe.
Male bud - not seen. A very vigorous, large-fruited form,
for Malaya, with more suckers than average. Planted at
Singapore and sent to U.S.

Kampong Chedok, west of Tanah Merah - Kelantan, Malaya
Interior valley - clay loam - 200 ft - Feb. 26, 1961
2-7714 Pisang Jari Buaya or Pindi - stooling habit compact
with many pseudostems - 7 m. in height and 34 cm. in
diameter. Pseudostems pinkish, becoming glossy black with age.
5 Wax - very slight. Bunch pendulous with 10 hands - the
individual fingers subsessile, compact, ageotropic, 18 cm.
long and 2.8 cm. in diameter. Fruit yellowish-green when
ripe. Male bud - dark purple streaked yellowish. Inner
bract surface - yellowish. A giant, free-suckering
form of Jari Buaya. Planted at Serdang, Singapore, + U.S.

Kampong Glugor - Penang Island - Malaya - Interior
valley - sandy clay - 50 ft - Feb. 28, 1961
2-7715 Pisang Paloh or Kra - stooling habit compact

with many pseudostems - 7m. in height and 45 cm. in
diameter. Pseudostems reddish purple, ageing glossy black.
4 Wax - slight. Bunch semi-pendulous with 5 hands - the
individual fingers pedicellate, compact, splayed - 16 cm. long
and 3.2 cm. in diameter. Fruit yellow when ripe. Male bud
not seen. Looks like either an AA or AAA type - probably a
green-red - Serdang "Mundan". Planted at Singapore + U.S

Tamil Cooli Lines, Penang Hill, Penang Island, Malaya
Steep Hillside, sandy loam - 2400 ft. - March 1, 1961.
2-7714 Pisang Pachan Madan = Pachaladen - stooling habit
compact with many pseudostems - 7m. in height and 45 cm. in
diameter. Wax - fairly pronounced. Bunch pendulous with 8-9
hands the individual fingers pedicellate, compact, ageotropic - 18 cm
2. long and 3.5 cm. in diameter. Fruit color - yellow when ripe. Male
bud purple A very vigorous AAA type, growing on a poor site.
Foliage unusually erect. Said to have been purchased for a
high price and to be very rare in Malaya. Howes lists
"Pachaladen" as a large fruited AAA type from India. May
be identical with "Masak Hijau" and should be compared
with it. Sent to U.S. only.

Penang Island, Malaya - steep hillside - 1000 ft. March 1, 1961
2-7717 Cloves - Eugenia caryophyllata - small tree to about 25-
40 ft with attractive glossy foliage. Fruits pinkish purple
becoming blackish with age and containing a single seed.
Pulp with a strong clove-like odor. Crushed leaves smell
like "bay rum." "Pimenta." Cultivated at random in
rubber and nut meg plantations -

Kampong Awah - Mile 71 - east of Temerloh - Pahang, Malaya
Interior valley - clay - 200 ft - March 25, 1961

Pisang Pali (string banana) Serun or Kerak - stooling habit
2-7718 compact with many pseudostems - 4.5 m. in height and 54 cm.
in diameter Pseudostems green, becoming glossy black with
age. Wax - pronounced on lower leaf surface. Bunch horizontal
with 9 hands - the individual fingers pedicellate, compact, ageotropic,
13 cm. long and 3.5 cm. in diameter. Fruit yellow when ripe -
4 very seedy but with quite a bit of edible pulp. Male bud - greenish-
yellow - 2 bracts open at a time. A yellow - budded variant of
Musa Acuminata Malaccensis with larger than average
bunches of fruit. Probably Ridley's "Musa Flava". Population mostly
with yellow buds, but about 15% pale purple (see 7719) Bunches
often semi-erect, or erect. From a large, vigorous, variable and
partially parthenocarpic colony. Planted at Singapore and U.S.

2-7719 Pisang Pali (string banana) or Serun or Kerak - stooling habit
compact with many pseudostems - 4 m. in height and
24 cm. in diameter Pseudostems pinkish green with blackish
blotches when old. Wax - fairly pronounced on lower leaf
surface. Bunch horizontal with 9 hands - the individual
fingers pedicellate, compact, ageotropic - 14 cm long and 2.8 cm. in
4 diameter. Fruit yellow when ripe - seedy but with quite a bit
of edible pulp. Male bud - pale purple - inner bract surface
yellowish - 1 bract open at a time. Near "Acuminata
Malaccensis but atypical in the pale purple bud and
larger fruit. There is some evidence, in the form of
mixed clumps that this may be a color variant of 7718
This form is not mentioned by Simmonds.
Planted at Singapore and sent to the U.S.

2-7720 Pisang Pindik - stooling habit compact with many
pseudostems ~~compact with many~~ - 5.5 m. high and 30 cm.
in diameter. Pseudostems, mostly green, becoming glossy-black.
Wax - slight. Bunch horizontal with 6 hands, the individual fingers
ageotropic, 14 cm. long and 2.8 cm. in diameter. Fruit yellow. Male bud -
6 pale purple - streaked yellow - inner bract surface rich purple - bracts
imbricate at tip - Looks like an AA type, note imbricate bracts, may
be a seedless mutant of some local wild form since it bears a
considerable superficial resemblance to both the purple - bracted
form of "Acuminata Malaccensis" (sensu Musa Flava variant)
and Malaccensis (sensu Siamea variant). Singapore and U.S.

7721 - DISCARDED -

Highway about 10 miles south of Karak (mile 121) Pahang Malaya
stream bank - clay loam - 250 ft. - March 26, 1961

2-7722 Pisang Serum - stooling habit compact with few pseudostems -
5 m. in height and 28 cm. in diameter. Pseudostems - ~~pale~~ pale pink, becoming
glossy black. Wax - pronounced on lower leaf surface. Bunch pend-
2 ulous with 11 hands the individual fingers pedicellate, compact,
ageotropic - 16 cm. long and 3.5 cm. in diameter. Fruit yellow. Male
bud reddish purple - 1-2 bracts open at once. Inner bud yellow
after it was cut. A very superior form of "Acuminata Malaccensis"
Only one sucker produced - no other plants of this type seen.
Sent to U.S.

2-7723 Pisang Serum - stooling habit compact with many pseudostems.
6 m. in height and 30 cm. in diameter. Pseudostems, pinkish,
developing blackish blotches. Wax - pronounced on lower leaf surface.
seed Bunch horizontal with 8 hands the fingers 16 cm. long + 2.7 cm.
in diameter. Fruit yellow. Male bract - bright reddish - purple. 1
bract open at a time. An extremely superior form of "Acuminata
Malaccensis, with very large fruit, which have a considerable

development of edible pulp. Seed only

2-7724 Pisang Seum - stooling habit compact with many pseudostems - 6m high + 32 cm. in diameter. Pseudostems pinkish becoming black with age. Wax on lower leaf surface. Bunch semi-pendulous seed with 9 hands - individual fingers 14 cm. long and 2.8 cm. in diameter. Fruit yellow. Male bud purple - streaked yellow. A very superior variant form of Acuminata Malaccensis. Seed only

Vicinity Jeram Glugor - Ulu Kelantan, Malaya - Banks of Sungei Menggiri - clay loam - 200 ft. - April 2, 1961

2-7725 Pangis (Pemear) stooling habit compact with few pseudostems - 6m. in height and 32 cm. in diameter. Wax pronounced on lower leaf surface. Bunch pendulous with 11 hands the individual fingers ageotropic - 14 cm. long and 2.2 cm. in diameter. Fruit yellow - very seedy. Male bud - none present but adjacent plant reddish-purple - often streaked yellow - frequently imbricate. 4. A very remarkable form of "Musa Acuminata Siamea" with a completely pendulous bunch and much longer than average fruits. Fingers with a very strongly developed bottle neck at the apex. Pseudostems usually with a single sucker, so that the present lot has been taken from 4 superficially identical plants in the same area. This form is extremely rare with not more than 8-10 examples seen in about 75 miles of river. Singapore and U.S.

Kampong Gemalah - Ulu Kelantan, Malaya - Banks of the Sungei Jenera - sandy loam - 150 ft. - April 4, 1961

2-7726 Pelui Nangka - stooling habit compact with many pseudostems - 3.5m. in height and 30 cm. in diameter. Pseudostems mostly green (pink when stripped) Wax - moderate. Bunch pendulous with 6 hands - the individual fingers 15 cm.

long and 3 cm. in diameter. Fruit yellow - said to be acidulous. Male bud -
4 pinkish purple - slightly imbricate at the tip. One bract open at a time. Looks
like an AAB type. Male bud like that of "Abu Keling" (Mativia) U.S.

2-7727 Pelasi Jelá (Temiar) - stooling habit compact with many pseudostems
3 m. in height and 28 cm. in diameter. Pseudostems - dark pink becoming green
with blackish blotches. Wax - moderate. Bunch, pendulous with 6-9 hands
the individual fingers, ageotropic - 18 cm long and 3.5 cm. in diameter. Fruit
4 said to be yellow and sweet. Male bud - dark purple usually without an
expanded bract. Looks like an AAA type. Malay name "Pisang Pelai" super-
ficially resembles "Pisang Mangpa" and frequently confused with it, hence
these collections may be a robust "Cavendish" but atypical under these conditions.
Better specimen rephotographed with negrito man - but no number. U.S.

Kampong Kala, Menggise valley, Ulu Kelantan, Malaya. Inland valley.
150 ft. - clay loam - April 4, 1961
Pisang Puntong (negrito) - stooling habit compact with few
2-7728 pseudostems - 3 m. in height and 29 cm. in diameter. Pseudostems green.
Wax - fairly pronounced. Bunch pendulous with 5 hands - the individual
3. fingers, splayed, 18 cm. long and 6 cm. in diameter. Fruit said to be yellow
Male bud - dark purple - imbricate at tip - 1 bract open at a time. Looks
like an ABB type. Said to be cooked. No number. Aboriginal agent
Hassan in photo. Resembles a larger-fruited form of "Abu Siam"
excepting for the consistently produced male bud. U.S.

Forested area about 3 miles north of Maran. Pahang, Malaya,
Hillside, clay loam - 250 ft. - April 8, 1961
2-7729 Pisang Tok - stooling habit compact with many pseudostems -
2.6 m. in height and 15 cm. in diameter. Pseudostems mostly
green - developing purplish blotches. Wax - none. Bunch erect

with 4-8 hands - the individual fingers, splayed, 11 cm. long and 2.7 cm.
6 in diameter. Fruit yellowish grey - seedy. Male bud - white to pale
yellow - changing to violet on upper margins - tips green. A robust form
of "Musa Violascens" with persistent bracts. Flowers whitish Singapore + U.S.

About 1 mile south of Telemong - Pahang, Malaya - Banks of Telemong River
250 ft. - alluvial loam - April 9. 1961

2-7730 Pisang Kra (Kera) Karok? - stooling habit compact with few pseudo-
stems - 5.5 m. ~~thick~~ in height and 28 cm. in diameter. Pseudostems -
rosy pink, becoming glossy black. Wax - pronounced, on lower leaf
surfaces. Bunch pendulous with 9 hands - the individual fingers
4 ageotropic, 15 cm. long and 2.3 cm. in diameter. Fruit yellow. Male bud -
dark red - tip yellow. One bract open at a time - not imbricate. A very
superior form of "Musa Acuminata Malaccensis" with a pendulous
bunch of large fruit. From a large, vigorous and partially parthen-
ocarpic colony. Inner bract surface glossy, reddish orange
to base - U.S.

2-7731 Pisang Kra (Kera) Karok? - stooling habit compact with many
pseudostems - 6 m. in height and 32 cm. in diameter. Pseudostems -
pinkish, developing blackish blotches. Wax - pronounced on lower leaf
surface. Bunch horizontal with 10 hands - the individual fingers
ageotropic, 14 cm. long and 2.5 cm in diameter. Fruit yellow. Male bud
4 reddish brown, streaked yellow - tip yellow - 1 bract open - imbricate. A
very superior form of "Musa Acuminata Malaccensis" with un-
usually large, partly parthanocarpic fruit. Inner bract surface
pale rose, fading to yellowish at the base. Note imbricate bracts present
in about 10% of plants in this valley. Innermost bracts in bud pure
yellow. Sent to U.S.

About 5 miles south of Karak. Pahang, Malaya. Banks of
Pelemong River, clay loam - 250 ft. - April 9, 1961

2-7732 Pisang Kra (Kera) Karok? stooling habit compact with few
pseudostems - 5.5 m in height and 30 cm. in diameter. Pseudo-
stems pinkish becoming glossy-black. Wax - pronounced on lower
leaf surface. Bunch semi-pendulous with 8 hands - the
3. individual fingers, ageotropic, 14 cm. long and 2.6 cm in diameter.
Fruit yellow. Male bud - red streaked yellow - 1 bract open - imbricate
and yellow at tip. A superior form of "Musa Acuminata Malaccensis"
with a semi-pendulous bunch and partially parthenocarpic
fruit. Note imbricate bract. Sent to U.S.

2-7733 Pisang Kra (Kera) Karok? stooling habit compact with many
pseudostems - 6 m. in height and 30 cm. in diameter. Pseudostems
pale pink, becoming glossy black. Wax - pronounced on lower leaf
surface. Bunch horizontal with 8 hands - the individual fingers
5 ageotropic, 15 cm. long - 2.8 cm in diameter. Fruit yellow - seedy but
with quite a bit of pulp. Male bud - blood red - strongly imbri-
cate. 1-2 bracts open at a time - tip yellow. A vigorous, free-sucker-
ing form of "Musa Acuminata Malaccensis" with unusually large
partially parthenocarpic fruit. Note imbricate bracts. U.S.

2-7734 Pisang Kra (Karok?) stooling habit compact with few pseudostems -
1.6 m. in height and 12 cm. in diameter. Pseudostems pinkish,
becoming mostly green with age. Wax - ? - Bunch - erect with
? 4 hands - the individual fingers splayed - 9 cm. long and 1.8 cm.
in diameter. Fruit probably yellow. Male bud - pinkish lavender
imbricate at tip. 3 bracts open at one time. Looks like a natural
hybrid between "Musa Acuminata Malaccensis" and "Musa
Violascens. Both parents present in area. Only one very weak

plant seen. Sent to U.S.

Kampong Jeliang. Kuala Kangsar Dist. Perak, Malaya -
Inland valley - clay loam - 300 ft. May 15, 1961

2-7735 Pisang Emas Besar - stooling habit compact with few pseudo-
stems - 4 m. in height and 28 cm. in diameter. Pseudostems pink,
becoming yellowish-green with brown blotches. Wax - none.
Bunch, pendulous with 5-7 hands - the individual fingers
6 splayed - 13 cm. long and 3.5 cm. in diameter. Fruit yellow -
very thin, pale orange, firm, sticky - very sweet. Male bud -
reddish-purple. An AA type - very similar to "Pisang Mas"
but with a pendulous bunch of larger fruit. Should be
compared with 7659, 7661, + 7663 as well as "Pisang
Hotel" from North Borneo (7540). Singapore and U.S.

2-7736 Pisang Rastali Besar - stooling habit compact with many
pseudostems - 5 m. in height and 30 cm. in diameter. Pseudo-
stems green. Wax - fairly pronounced. Bunch semi-
pendulous with 9 hands - the individual fingers, ageotropic,
6 16 cm. long and 3.5 cm. in diameter. Fruit yellow. Male bud dark
purple - imbricate. Looks like a very vigorous AAB type.
Differs from Philippine Latundan in larger bunch - larger
fruit and in absence of black cross-hatching at base of
leaf petiole. Planted at Singapore and sent to U.S.

Kampong Guar - Kuala Kangsar - Perak, Malaya. Interior
valley - clay loam - 300 ft. - May 15, 1961

2-7737 Pisang Berangan Merah - stooling habit compact with few
pseudostems - 5 m. in height and 30 cm. in diameter. Pseudo-
stems, pink - developing glossy-black blotches. Wax - slight.
Bunch - pendulous - with 8 hands - the individual

fingers, ageotropic, 14 cm. long and 3.2 cm. in diameter.
4 Fruit - yellow - orange (reported) when ripe - cream colored when
immature. Male bud - not seen. Looks like an AAA type -
resembles Philippine Lacatan and should be compared with
it 7383 - 7401 and with 7668. Singapore and U.S

2-7738 Pisang Jasum or Lidi - stooling habit compact with many
pseudostems - 4 m. in height and 27 cm. in diameter. Pseudo-
stems pink, becoming glossy-black. Wax - none. Bunch horizontal
with 5-7 hands - the individual fingers splayed - 9 cm long and
2.5 cm. in diameter. Fruit yellow - pulp yellow - glutinous - very
6 sweet. Male bud - dark purple - inner bract pale yellow. An
AA type that bears a considerable superficial resemblance
to "Musa Acuminata Macrocarpa," which occurs in the area,
and may be derived from it. Wild seeded Cultivated seedless
Malaccensis — Lilin
Microcarpa — Jasum?
Planted at Singapore and sent to U.S.

Sungei Riam Estate - Kuala Kangsar - Perak, Malaya -
Inland valley - clay loam - 300 ft. May 15, 1961
2-7739 Pisang Burok Bakul - Pachan Natan - Pisang Chabut
Pandan - stooling habit compact with many pseudostems -
4 m. in height and 28 cm. in diameter. Pseudostems pink,
developing blackish blotches. Wax slight. Bunch pendulous
5 with 5-7 hands - the individual fingers, ageotropic, 15 cm. long
and 3.2 cm. in diameter. Fruit - reported to be green. Male bud,
pinkish purple - like that of Pisang Ambon. Looks like an AAA
type. Very like Pisang Ambon in superficial appearance.
Fruits reported to take a very long time to ripen and to

be of rather inferior quality. Singapore and U.S.

Kampong Bukit Gantang - Taiping - Perak, Malaya - Inland
valley - clay - 300 ft - May 16, 1961

2-7740 Pisang Abu - Gagah - stooling habit compact with many
pseudostems - 6 m. in height and 45 cm. in diameter. Pseudo-
stems green. Wax pronounced. Bunch horizontal with 4 hands
4 the individual fingers splayed 21 cm. long and 9 cm. in diameter.
Fruit yellow. Male bud - none produced. A vigorous ABBB
type. Replaces 7665 (Pisang Abu Siam) Singapore and U.S.

2-7741 Pisang Ekor Kuda - stooling habit compact with few pseudo-
stems - 3.2 m. in height and 16 cm. in diameter. Pseudostems
dark pink, becoming blackish with age. Wax moderate.
4 Bunch horizontal - with 4-5 hands - the individual fingers,
splayed, ageotropic - 10 cm. long and 2.2 cm. in diameter. Fruit
yellow. Male bud - red, streaked yellow. A slender AA type -
probably identical with "Pisang Lilin". Singapore and U.S.

2-7742 Pisang Bunga Besar - stooling habit compact with
few pseudostems - 6 m. in height and 45 cm. in diameter.
Pseudostems pink, developing black blotches with age. Wax
pronounced. Bunch pendulous with 10 hands - the individ-
5 ual fingers, ageotropic - 18 cm. long 3.6 cm. in diameter.
Fruit - reported to be yellow when ripe. Male bud reddish-
purple. A very vigorous AAA type. Probably a good
form of Pisang Ambon but said to differ in the fewer
suckers and larger bunch and larger fruit.
Planted at Singapore and sent to U.S.

Kampong Bukit Gantang - Taiping - Perak, Malaya
Inland valley - clay loam - 400 ft. - May 16, 1961

2-7743 Pisang Kendike - stooling habit compact with few pseudo-
stems - 3 m in height and 27 cm. in diameter. Pseudostems -
dark pink becoming glossy brown. Wax slight. Bunch
5 pendulous with 6 hands - the individual fingers, ageotropic,
14 cm. long and 3.2 cm. in diameter. Fruit yellow. Male bud -
not seen. Looks like an AA type or probably an AAA.
Resembles "Pisang Mas" but differs at the base and in
the more compact bunch of longer fruit.
Planted at Singapore and sent to the U.S.

2-7744 Pisang Pahang - stooling habit compact with few pseudo-
stems - 3 m. in height and 18 cm. in diameter. Pseudostem -
dark pink, becoming blackish. Bunch horizontal with
6 6 hands - the individual fingers splayed, 9 cm. long and
2.8 cm. in diameter. Fruit yellow. Male bud dark purple -
imbricate at the tip. Looks like an AA type with reddish
leaf petioles and a purple-flushed new leaf. Looks very
much like #7694 from Serdang. Should be compared with
#7720 (Lemak Manis). Singapore and the U.S.

2-7745 Pisang Mas Kertas - stooling habit compact with few
pseudostems - 2.5 m. in height and 17 cm. in diameter.
Pseudostems rose red becoming reddish-brown. Wax
moderate. Bunch - ~~(reported) horizontal~~ - (reported)
4 pendulous - (reported) 14 hands. Bunch not seen. Fruit
(reported) yellow. Male bud - not seen. Looks like an
AAA type - of dwarf habit - said to have a very large

bunch of good quality fruit. Planted at Singapore and U.S.

2-7746 Pisang Langlong - stooling habit compact with few
pseudostems - 5 m in height and 32 m. in diameter. Pseudo-
stems dark pink - becoming glossy black. Wax - slight. Bunch,
4 semi-pendulous with 5 hands - the individual fingers
splayed (immature) 14 cm. long and 2.7 cm in diameter.
Fruit reported to be yellow. Male bud - dark purple - inner
bract surface - pale yellow. Looks like an AAA type. Not
immediately identified with anything collected to date,
but not very distinctive. Planted at Singapore and U.S.

2-7747 Pisang Relong - stooling habit compact with few pseu-
dostems - 4 m. in height and 30 cm. in diameter. Pseudo-
stems pink - becoming green with black blotches. Wax -
pronounced. Bunch - pendulous with 7 hands - the individual
5 fingers splayed - 16 cm. long and 2.8 cm. in diameter. (im-
mature). Fruit reported yellow. Male bud - pinkish
purple - Inner bract surface purple. Looks like an AAA
type. Should be compared with "Pisang Nangka #7606,
#7666 + #7726" and with North Borneo varieties with
flattened fruits #7570 - #7601. Singapore and the U.S.

Kampong Bukit Gantang - Taiping - Perak Malaya -
Inland valley - sandy loam - 300 ft May 17, 1961

2-7748 Pisang Padi - stooling habit compact with few to many
pseudostems - 3.8 m. in height and 14 cm. in diameter.
Pseudostems pink - ageing glossy black. Wax - slight. Bunch
horizontal with 4-5 hands - the individual fingers, splayed,

11 cm. long and 2.2 cm. in diameter. (immature) Fruit
5 said to be yellow. Male bud purple, streaked yellow.
A slender AA type with a short compact bunch of
small fruit. Planted at Singapore and sent to U.S.

Highway about 20 miles south of Grik. Perak, Malaya -
Inland valley - clay loam - 600 ft. - May 18, 1961
2-7749 Pisang Karok - stooling habit compact with few pseudo-
stems - 4 m. in height and 20 cm. in diameter. Pseudostems
pink becoming glossy black. Wax pronounced on
lower leaf surfaces. Bunch pendulous with 8 hands -
the individual fingers, ageotropic - 15 cm. long and 2.5 cm
3 in diameter. Fruit yellow. Male bud dark red acuminate.
Good form of "Musa Acuminata Malaccensis" with a
pendulous bunch. Seeds taken from completely ripe
yellow fruit. Test lots of wet and dry seed sent to
Honduras. ~~Planted~~ Sent to U.S.

Forest Reserve - 7 miles south of Grik - Perak, Malaya -
Hillside - clay loam - 650 ft. - May 18, 1961
2-7750 Pisang Karok - stooling habit - compact with few pseudo-
stems - 6 m. in height and 28 cm in diameter. Pseudostems
pink, becoming glossy black. Wax - none. Bunch, pendulous,
with 12 hands - the individual fingers ageotropic - 11 cm.
5. long and 2.2 cm. in diameter. Fruit yellow when ripe.
Male bud - dark blackish purple - inner bract surface
yellowish - "Musa Acuminata Microcarpa" superior
form from a colony having pendulous bunches of
rather smaller than average fruit.
Planted at Singapore and sent to U.S.

Vicinity Kati - Kuala Kangsar - Grik road - Perak,
Malaya - Inland valley - clay - 400 ft. - May 18, 1961

2-7751 Pisang Karok - stooling habit compact with many
pseudostems - 6 m. in height and 28 cm. in diameter.
Pseudostems pink - becoming glossy black. Wax pronounced
on lower leaf surfaces - Bunch - semi - pendulous with
5 13 hands - the individual fingers ageotropic, 10 cm. long
and 2.2 cm. in diameter. Fruit yellow when ripe. Male
bud dark red, acuminate. A good form of "Musa
Acuminata Malaccensis" with a very compact, semi-
pendulous bunch. Note unusual number of fingers per
hand (40). Planted at Singapore and sent to U.S.

Vicinity Ringlet village - Pahang - Malaya - Forested
hillside - clay loam - 3000 ft. - May 13, 1961

2-7752 Pisang Karok - stooling habit compact with few pseudostems -
5.5 m in height and 29 cm. in diameter. Pseudostems, pink -
becoming glossy black. Wax - none - Bunch horizontal
seed with 12 hands - the individual fingers ageotropic 15 cm.
long and 2.5 cm. in diameter. Fruit yellow. Male bud -
dark blackish purple. Seed only. "Musa Acuminata
Microcarpa" - typical highland form. Test lot of wet
and dry seed sent to Honduras. Fruit full but not
yellow when collected. Ripened in pliofilm bag to good
yellow color in 8 days. Sent to Honduras.

Mountain slopes above Gitgit, Singaraja District, Bali, at 900-1200 meters in elevation. July 21, 1961

7753 - Biu Alas or Biu Batu - Habit compact, with many pinkish pseudostems which become glossy blackish purple with age and average 2-4 meters in height and 15-18 cm. in diameter. Bunch horizontal, with 3-5 hands, the individual fingers splayed and about 12 cm. long and 3.5 cm. in diameter. Fruit said to be yellow when ripe. Male bud reddish purple, slightly streaked yellow - one bract open at a time. Apparently a local race of *Musa acuminata microcarpa*, in which the bracts of the male bud are sometimes somewhat imbricate at the tip. Plants occasional in wet ravines. Superficially identical with Biu Buah, commonly cultivated in the area, bearing the same relation to it that Musa acuminata malaccensis does to Pisang Lilin. Looks rather like *Pisang Mas* in overall aspect.

7754 - Biu Kayu Bunga - Habit compact, with many reddish-purple pseudostems which become glossy black with age and average 6 meters in height and 34 cm. in diameter. Bunch pendulous, with 8-9 hands, the individual fingers more or less splayed and 17 cm. long and 3.5 cm. in diameter. Fruit said to be yellow when ripe. Male bud dark, blackish purple, one bract open at a time. Looks like an AA-type. Fairly common - should be compared with 7757.

Batu Manesel, Singaraja District, Bali, - Mountain slopes above Git Git - at about 900 meters. July 21, 1961.

7755 - Biu Buah - Habit compact, with many pinkish pseudostems which become blotched with glossy black with age and average 4-5 meters in height and 20-30 cm in diameter. Bunch horizontal to semi-pendulous, with 6 hands, the individual fingers splayed and 12 cm. long and 3.5 cm. in diameter. Fruit yellow when ripe. Male bud reddish purple, slightly streaked yellow, one bract open at a time. Looks like an AA-type identical in superficial appearance with the local wild form of Musa acuminata microcarpa and probably derived from it, differing only in the green, rather than pink margins of the leaf. Looks rather like Pisang Mas in general aspect. Bracts slightly imbricate at the tip - Should be compared with Pisang Lemak Manis from Malaya. Very common in the coffee-growing area.

Lalanglingah, Singaradja District, Bali - at about 600 meter elevation - July 22, 1961. (Near Lake Bratan)

7756 - Biu Poh - Habit compact, with many pinkish pseudostems whic become glossy black with age and average 6 meters in height and 30 cm. in diameter. Bunch horizontal, with 8 hands, the individual fingers splayed and 13 cm. long and 4.5 cm. in diameter. Fruit said to be yellow when ripe. Male bud reddish purple and very waxy, with one bract open at a time. Looks like a BBB-type, very similar in superficial appearance to Pitogo from Zamboanga, but fruits said to be cooked. Flower bud boiled as a vegetable. Not common.

Tjandi Kuning, Singaradja District, Bali, at about 400 meters in elevation. July 22, 1961. (Near Lake Bratan)

7757 - Biu Suh-ud (Se-ed) - Habit compact, with many reddish purple pseudostems which become glossy black with age and average 5 meters in height and 34 cm. in diameter. Bunch horizontal to pendulous, with 7 hands, the individual fingers splayed and 16 cm. long and 3.2 cm. in diameter. Fruits said to be greenish yellow when ripe. Male bud blackish-purple, 1-4 bracts open at a time. May be an AA or AAA-type. Fairly common. Should be compared with 7754.

7758 - Biu Bali - Habit compact, with many green pseudostems which develop glossy black blotches with age and average 7 meters in height and 50 cm. in diameter. Bunch pendulous, with 8 hands, the individual fingers not splayed and 13 cm. long and 3.5 cm. in diameter. Fruit said to be yellow when ripe. Male bud glaucous purple, the bracts imbricate at the tip. One bract open at a time. Looks like a BB-type, with very erect leaves. Very common near Lake Bratan.

Highway one mile west of Tabanan, Bali, at about 300 ft. in elevation - July 24, 1961.

7759 - Biu Ketip - Habit compact, with many pinkish pseudostems which become glossy black with age and average 3.5 m. in height and 20 cm. in diameter. Bunch pendulous, with 5 hands, the individual fingers not splayed and 15 cm. long and 3.2 cm. in diameter. Fruit said to be yellow when ripe. Male bud not seen. Looks like an AA-type. New leaf flushed purple on lower surface - midrib of leaf pink. Occasional.

Sembung, Badung, Bali, at about 500 ft. in elevation - July 24, 1961.

7760 - Biu Lumut - Habit compact, with many bright reddish purple pseudostems which become glossy black with age and average 7 meters in height and 50 cm. in diameter. Bunch pendulous, with 9 hands, the individual fingers more or less splayed and 16 cm. long & 3.2 cm. in diameter. Fruit yellow when ripe, with an Ambon-like texture and flavor. Male bud dark blackish purple. Looks like a vigorous AAA-type, reminiscent of Pisang Palembang of North Borneo in the pendulous bunch and divaricate immature hands.

7761 - Biu Ganchang - Pseudostem solitary, pinkish, developing blackish blotches with age and averaging 4.5 m. in height and 30 cm. in diameter. Bunch pendulous, with 12 hands, the individual fingers not splayed and 20 cm. long and 3.2 cm. in diameter. Fruit yellow when ripe, pulp creamy white, with a sweet, Ambon-like taste. Male bud not seen. A very striking AA-type, like Pisang Jari Buaya in general aspect. Pseudostem with a nest of latent suckers at the base.

Kayu Behi village, Bangli District, Bali, at about 900 ft. in elevation - July 26, 1961.

7762 - Biu Kayu - Habit compact, with many reddish purple pseudostems which become green, with some blackish blotches with age and average 5 meters in height and 35 cm. in diameter. Bunch semi-pendulous, with 8 hands, the individual fingers not splayed and 17 cm. long and 3.2 cm. in diameter. Fruit said to be yellow when ripe. Male bud not seen. Looks like an AA-type. Leaves with very conspicuous dark red petioles & midribs.

TJIBODAS FOREST RESERVE - TJIPANAS DISTRICT, WEST JAVA, AT 4000 FT. ELEVATION - AUG. 4, 1961

7763- Tjau Kole - Habit compact, with a few pink pseudostems which become blackish purple with age and average 4 meters in height and 20 cm. in diameter. Bunch horizontal, with 6 hands, the individual fingers splayed and 10 cm. long and 2.5 cm. in diameter. Fruit yellow when ripe. Male bud dark purple. A local form of *Musa acuminata microcarpa*, differing from Malayan material principally in the paler color and acuminate form of the male bud. Forms lush thickets near the Tjibeureum waterfalls and found as isolated specimens in the primary forest, mostly where chance windfalls have provided a break in the canopy. Juvenile specimens sometimes exhibit a zebrina-like blotching on the leaves, and with the lower leaf surface flushed with purple.

BANTARDJATI, BOGOR DISTRICT, WEST JAVA, AT ABOUT 300 METERS IN ELEVATION, AUGUST 10, 1961.

7764- Pisang Ambon Merah - Habit compact, with a few pinkish purple pseudostems which become glossy black with age and average 6 meters in height and 34 cm. in diameter. Bunch pendulous, with 8 hands, the individual fingers not splayed and 18 cm. long and 3.5 cm. in diameter. Fruit said to be orange yellow when ripe. Male bud reddish purple. Looks like an AAA-type. Bunch more open-handed than Pisang Ambon Besar Hijau (7766) with somewhat shorter, partially splayed fingers.

7765 - Pisang Pajan - Habit compact, with a few dark reddish purple pseudostems which become glossy black with age and average 3.5 meters in height and 14 cm. in diameter. Bunch semi-pendulous, with 5-6 hands, the individual fingers splayed and 13 cm. long and 2.5 cm. in diameter when immature. Fruit said to be yellow when ripe. Male bud not seen. Looks like an AA-type. Should be compared with Pisang Boyan from Malaya. Leaf petiole flushed pink at the base. Fingers of hand strongly divaricate. Style persistent.

7766 - Pisang Ambon Besar Hijau - Habit compact, with many pale pink pseudostems which become green with glossy black blotches with age and average 6 meters in height and 32 cm. in diam. Bunch pendulous, with 10 hands, the individual fingers not splayed and 14 cm. long and 3.8 cm. in diameter. Fruit said to be yellow when ripe. Male bud not seen. Looks like an AAA-type, with a large, compact bunch of large fruit. Said to be the best form of Pisang Ambon grown in the area.

Pondok Pinang, on Kebajoran Lama Road, near Djakarta, West Java, at about sea level. Aug. 11, 1961

7767 - Pisang Seribu - Habit compact, with a few green pseudostems which average 3.5 meters in height and 22 cm in diameter, bunch pendulous, with about 30 hands, the individual fingers splayed and about 6 cm long and 2.5 cm. in diameter. Fruit yellow when ripe. Male bud reddish purple. Looks like an AAA-type, differing in the paler color of the imbricate male bud and relative lack of persistent bracts from the Bornean and Malayan collections.

Bantarjati, Bogor District, West Java, at about 300 meters in elevation. Aug. 12, 1961.

7768 - Pisang Puloh - Habit compact, with many reddish purple pseudostems which become green with blackish blotches with age and average 5 meters in height and 30 cm. in diameter. Bunch semi-pendulous, with 10 hands, the individual fingers splayed and 14 cm. long and 3.5 cm. in diameter. Fruits yellow when ripe. Male bud not seen. Looks like a vigorous AA-type. Would appear to be identical with the Malayan Pisang Assam. New leaf flushed purple, with the midrib temporarily reddish in color.

Tjimanggu, Bogor District, West Java, at about 500 meters in elevation. Aug. 12, 1961.

7769 - Pisang Ambon Bogo - Habit compact, with many pinkish pseudostems which become green with blackish blotches with age and average 5 meters in height and 34 cm. in diameter. Bunch pendulous, with 8 hands, the individual fingers not splayed and 16 cm. long and 3.8 cm. in diameter. Fruit yellow when ripe. Male bud not seen. Looks like an AAA-type - fruits very plump and with a terminal spot as in the Cavendish group. Plants do not look like a Cavendish, however. New leaf sometimes flushed purplish & midrib of leaf pinkish in color.

KAMPONG PERTANIAN, BOGOR DISTRICT, WEST JAVA, AT ABOUT 300 METERS IN ELEVATION. AUG. 12, 1961.

7770- PISANG BANGKAHULU NO. 1 - HABIT COMPACT, WITH A FEW PINKISH PSEUDOSTEMS WHICH BECOME GREEN WITH BLACK BLOTCHES WITH AGE AND AVERAGE 3.5 METERS IN HEIGHT AND 30 CM. IN DIAMETER. BUNCH SEMI-PENDULOUS, WITH 8 HANDS, THE INDIVIDUAL FINGERS NOT SPLAYED AND 14 CM. LONG AND 3.2 CM. IN DIAMETER. FRUIT YELLOW WHEN RIPE. MALE BUD NOT SEEN. MAY BE EITHER AN AA OR AAA-TYPE.

BANGKONGREANG, TJITJURUG DISTRICT, WEST JAVA, AT ABOUT 500 METERS IN ELEVATION. AUG. 13, 1961.

7771- PISANG BANGKAHULU NO. 2 - HABIT COMPACT, WITH A FEW REDDISH PURPLE PSEUDOSTEMS WHICH BECOME REDDISH BROWN WITH AGE AND AVERAGE 5.5 METERS IN HEIGHT AND 30 CM. IN DIAMETER. BUNCH HORIZONTAL, WITH 8 HANDS, THE INDIVIDUAL FINGERS SPLAYED AND 13 CM. LONG AND 3.1 CM. IN DIAMETER IN IMMATURE CONDITION. FRUIT REPORTED TO BE YELLOW WHEN RIPE. MALE BUD DARK REDDISH PURPLE. LOOKS LIKE AN AA - TYPE.

7772- PISANG PARETJET - HABIT COMPACT, WITH A FEW REDDISH PURPLE PSEUDOSTEMS WHICH BECOME DARK GLOSSY REDDISH BROWN WITH AGE AND AVERAGE 7 METERS IN HEIGHT AND 40 CM. IN DIAMETER. BUNCH PENDULOUS WITH 9 HANDS, THE INDIVIDUAL FINGERS NOT SPLAYED AND 12 CM. LONG AND 2.8 CM. IN DIAMETER. FRUIT SAID TO BE YELLOW WHEN RIPE. MALE BUD DARK BLACKISH PURPLE. LOOKS LIKE A VERY VIGOROUS AA-TYPE. MALE BUD OBTUSE, THE INNER BRACT SURFACE YELLOWISH. RESEMBLES THE CAMERON HIGHLANDS FORM OF MUSA ACUMINATA MICROCARPA IN SOME RESPECTS. SAID TO GROW BEST IN A partially shaded situation. NOTE 32 FINGERS per HAND!

7773- Pisang Angleng Hitam - Habit compact, with a few dark reddish purple pseudostems which become glossy reddish brown with age and average 7 meters in height and 45 cm. in diameter. Bunch pendulous, with 8 hands, the individual fingers not splayed and 15 cm. long and 3.2 cm. in diameter. Fruit said to be yellow when ripe. Male bud not seen. Looks like a very vigorous AA-type. New leaf flushed lavender. Midrib of new leaf pink. NOTE 38 FINGERS per HAND!

Tjiutara, Tjitjurug District, West Java, at about 500 meters in elevation. August 13, 1961.

7774- Pisang Sewu - Habit compact, with a few reddish purple pseudostems which become green with glossy brown blotches with age and average 5-7 meters in height and 30-40 cm. in diameter. Bunch pendulous, with 10 hands, the individual fingers splayed and 18 cm. long and 3.8 cm. in diameter. Fruit said to be yellow when ripe. Male bud dark reddish purple, with the inner bract surface yellow. Looks like a very robust AA-type. Rhizomes taken from a plant without fruit. Bunch photographed in Schophuys garden in Bogor. Bit labeled 7774-A taken from same plant as photo.

Schophuys Garden, Bogor, West Java, at about 300 meters in elevation - Aug. 14, 1961.

7775 - Pisang Sanggroito - Habit compact, with a few pinkish pseudostems which become green with black blotches with age and average 4 meters in height and 28 cm. in diameter. Bunch pendulous, with 10 hands, the individual fingers not splayed and 15 cm. long and 2.8 cm. in diameter. Fruit said to be greenish yellow when ripe. Male bud said to be yellowish, striped with purple. Looks like a very slender AA-type. Originally from East Java. No fruit available for photo. Description taken from Ochse illustration.

Tjipanas District, West Java, at about 1100 meters in elevation - (Roadside ravine, beyond village). August 14, 1961.

7776 - Tjau Kole - Habit compact, with many dark coppery red pseudostems which develop blackish blotches with age and average 2.5 meters in height and 15 cm. in diameter. Bunch horizontal, with 5-6 hands, the individual fingers not splayed and 14 cm. long and 2.5 cm. in diameter. Fruit yellow when ripe. Male bud dark blackish purple, the inner bract surface yellow. This is evidently representative of "Musa zebrina" as it is found in the wild, and is obviously simply a form of the local highland *Musa acuminata microcarpa* with an exceptional development of pigmentation, which occurs at random in the normal green populations. Locally fairly frequent, and making up up to 50% of the stand, as in this ravine. Extreme examples of very distinctive appearance, that might justify a *Forma* name. Lower leaf surface dark coppery red. Midribs of new leaf red.

Tjibodas Garden, Tjipanas District, West Java, at about 1500 meters in elevation. Aug. 14, 1961.

7777- Musa uranoscopus (coccinea) - Habit compact, with many green pseudostems 2 meters in height and 7 cm. in diameter. Inflorescence erect, with about 5 hands, the individual fingers not splayed and 3-4 cm. long and 2.2 cm. in diameter. Fruits pinkish white when mature. Bracts brilliant scarlet. Inflorescence very showy. Cultivated for ornament.

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